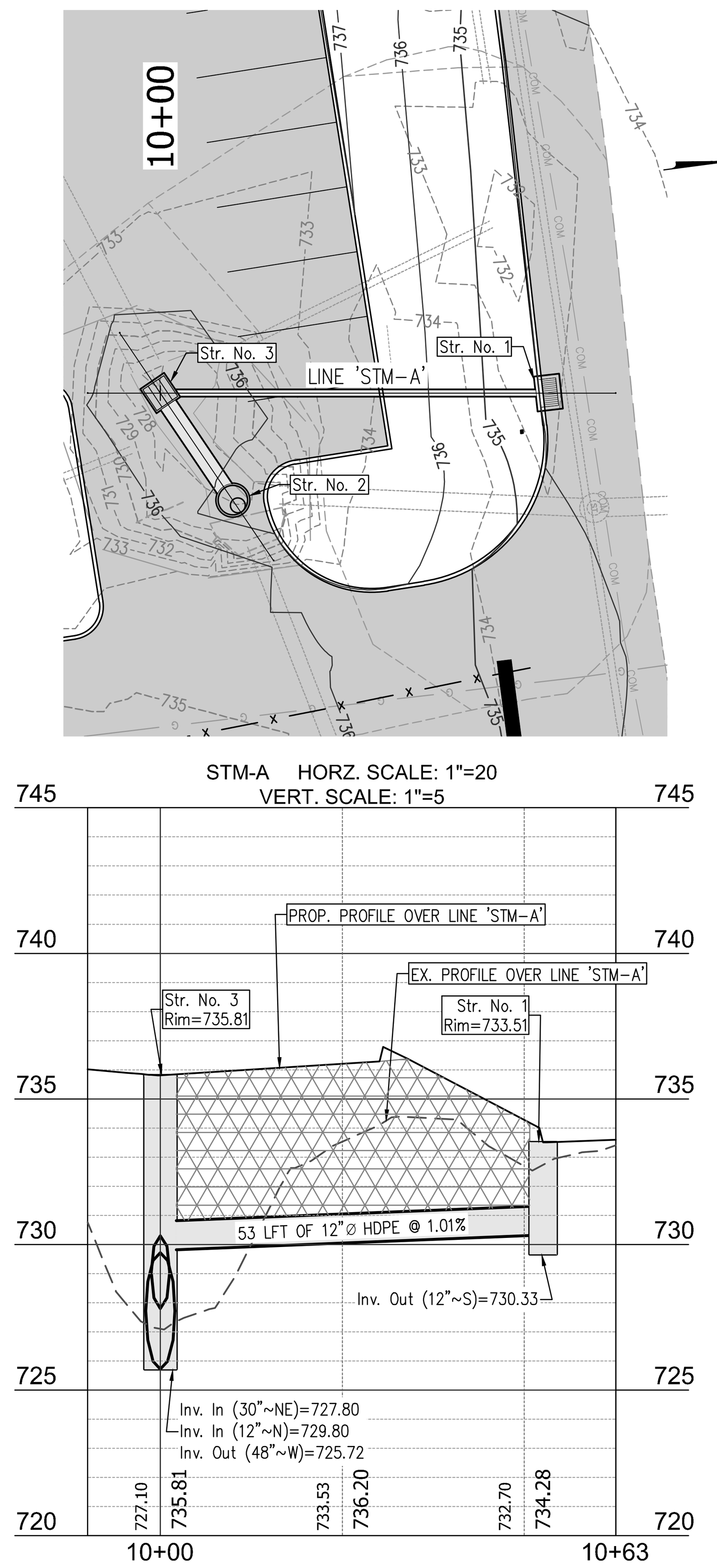

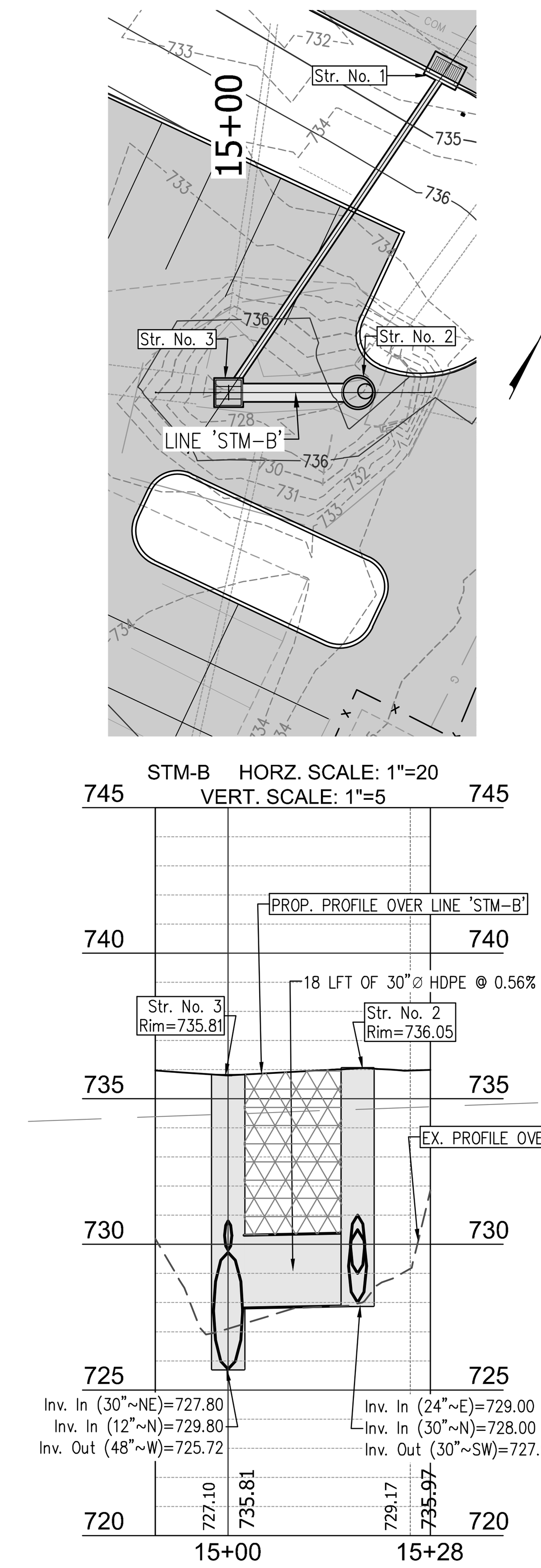

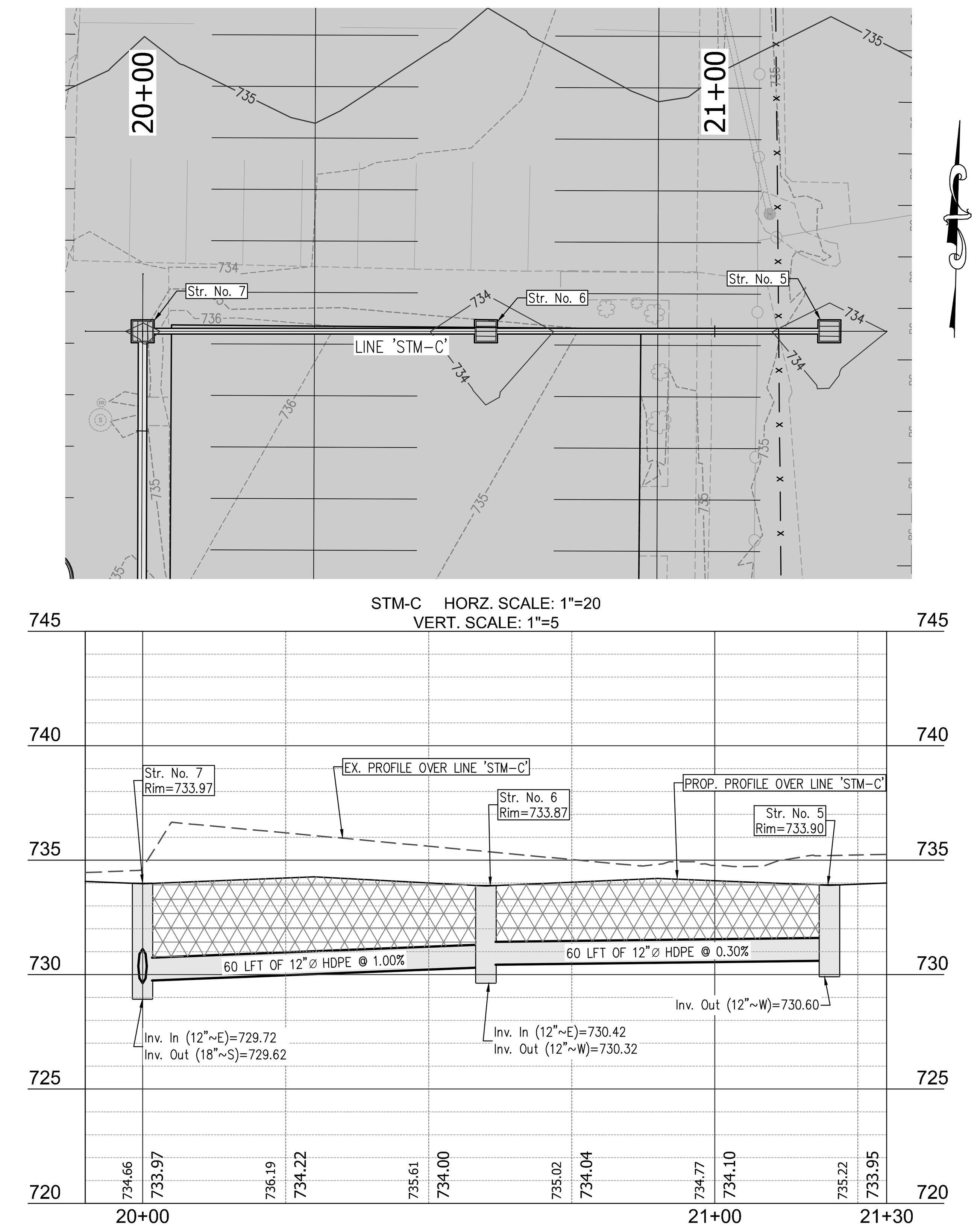

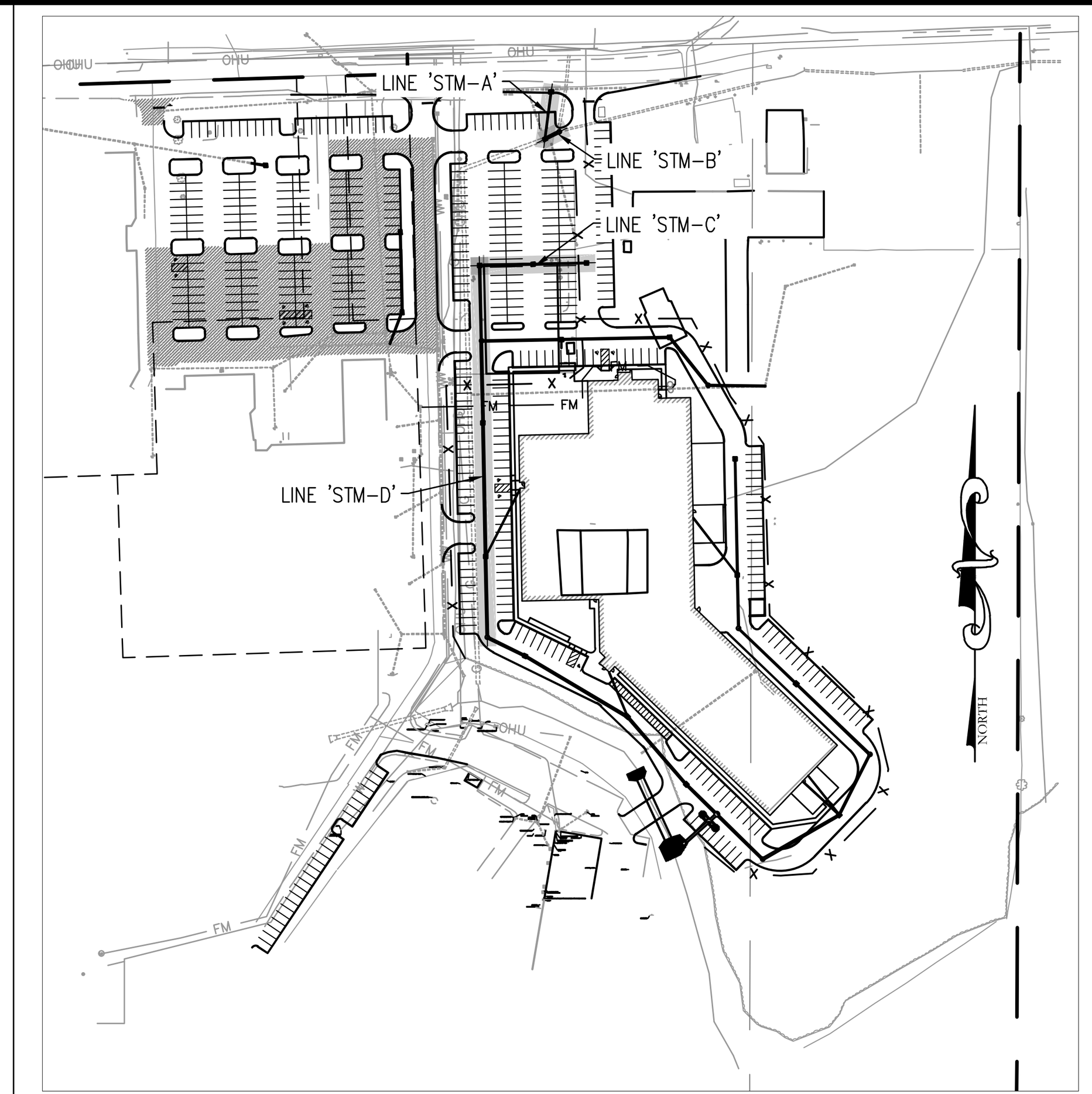

KEYMAP

NO SCALE

NOTES

1. ALL STORM SEWER CASTINGS SHALL INCLUDE AN EMBOSSED ENVIRONMENTAL LOGO WITH A DEPICTION OF A FISH AND THE PHRASE "DUMP NO WASTE–DRAINS TO STREAM".
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20 0 20 40

SCALE: 1" = 20'

ALL STORM, SANITARY AND UTILITY TABLES ARE LOCATED ON SHEET ___

NOTE:
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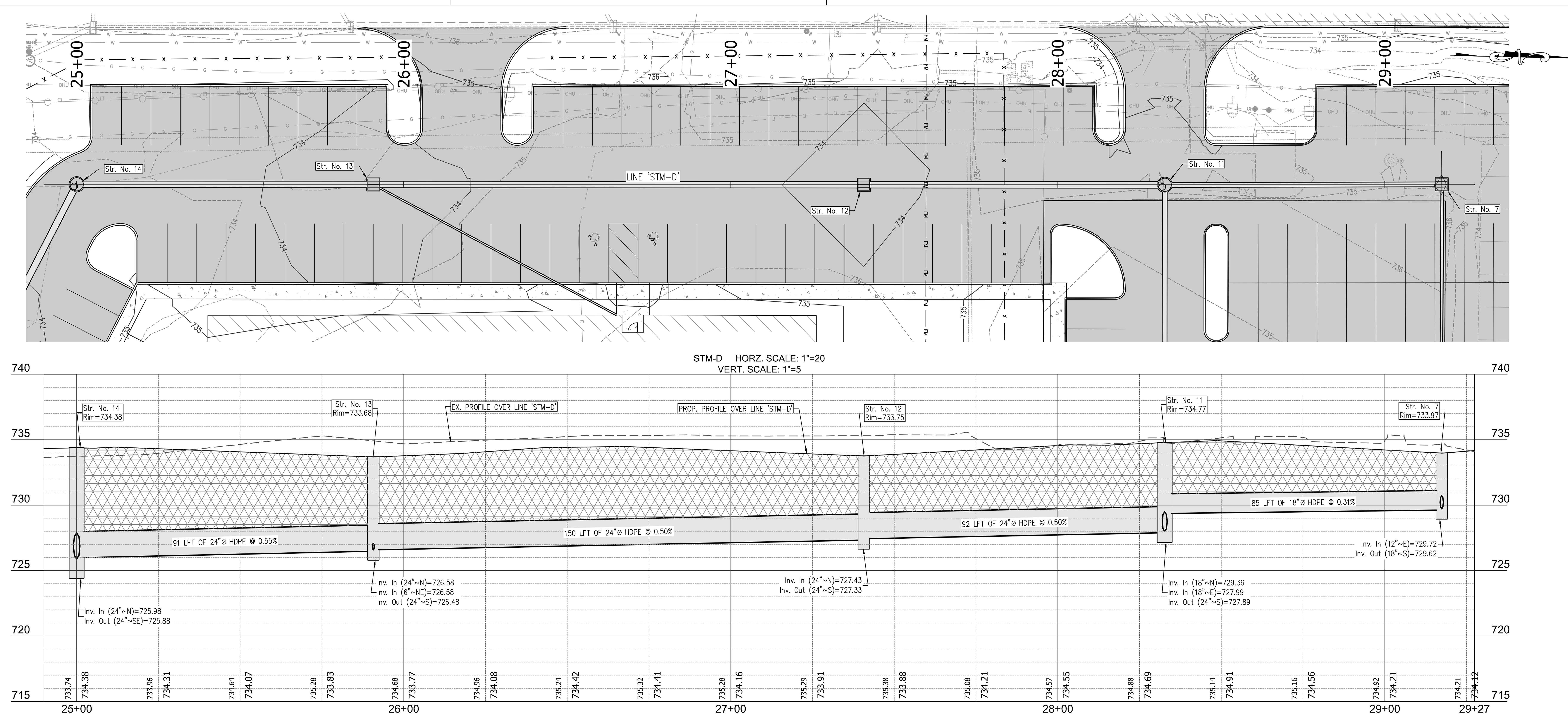

PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
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- EASEMENT LINE
- FENCE LINE
- SANITARY SEWER LATERAL WITH CLEANOUT
- STORM SEWER W/MANHOLE & END SECTION
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- GAS LINE
- STORM MANHOLES
- STORM INLETS
- STORM CURB INLETS
- AQUA–SWIRL UNITS
- 45° BEND
- WATER VALVE
- FIRE HYDRANT
- STORTZ FDC
- WATER VAULT
- SIGN
- GRANULAR BACKFILL ALONG STORM SEWER LINE

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SEAL

BRADY THOMAS VAUGHAN
REGISTERED
No. 12400527
STATE OF INDIANA
PROFESSIONAL ENGINEER

Brady T Vaughan

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
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Johnson County Court Services

1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN	DEP	CHECKED	GJI
DESIGNED	BRV	APPR.	GJI

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO.	ISSUE DATE
2301301	8-30-2024

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STORM PLAN & PROFILE

C-600

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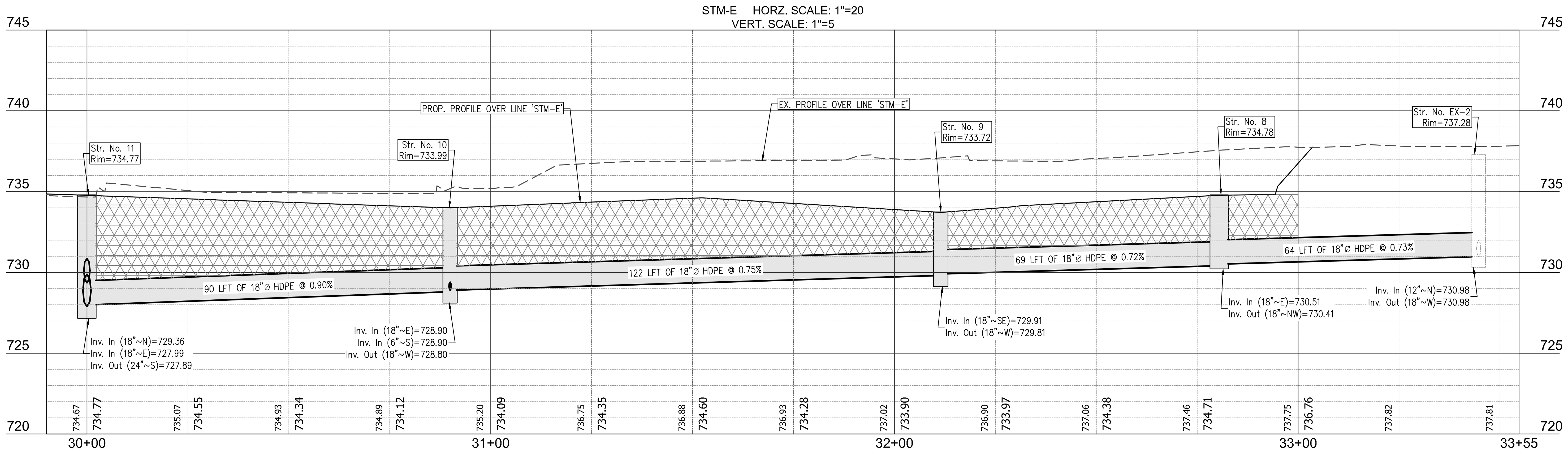

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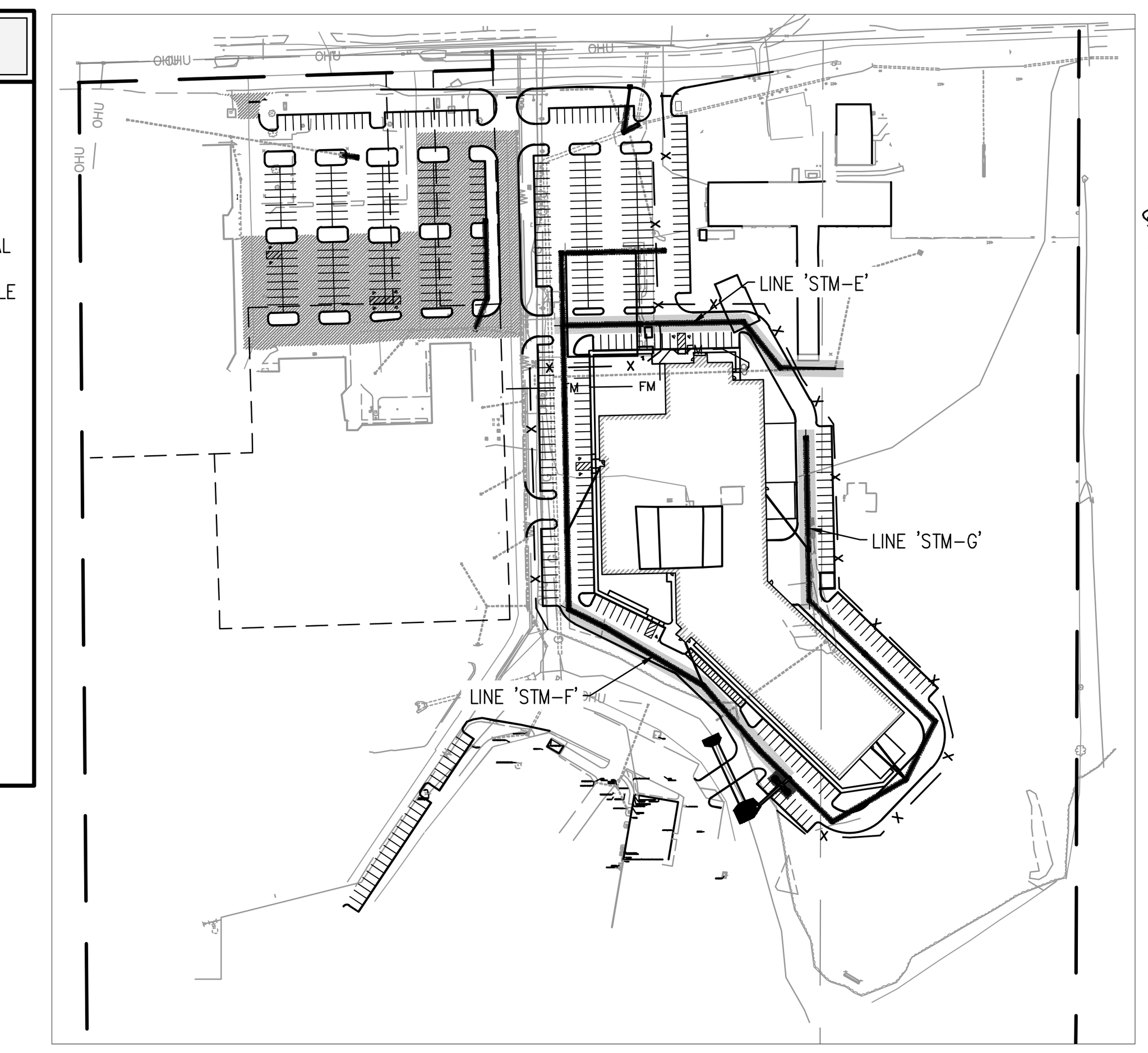

KEYMAP

NO SCALE

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20 0 20 40

SCALE: 1" = 20'

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ALL STORM, SANITARY AND UTILITY TABLES ARE LOCATED ON SHEET ____

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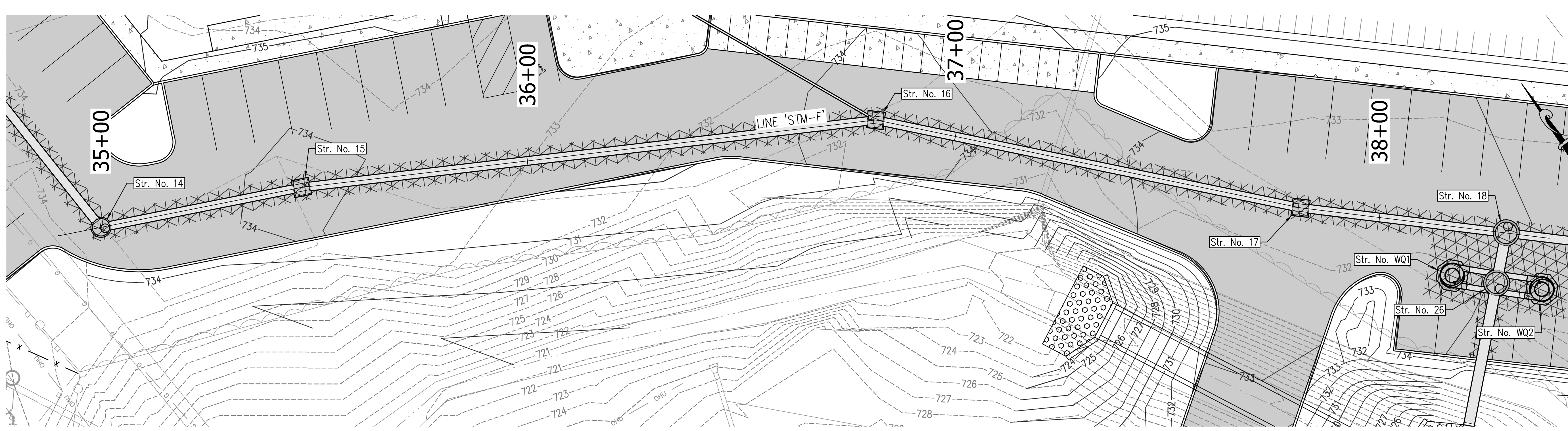

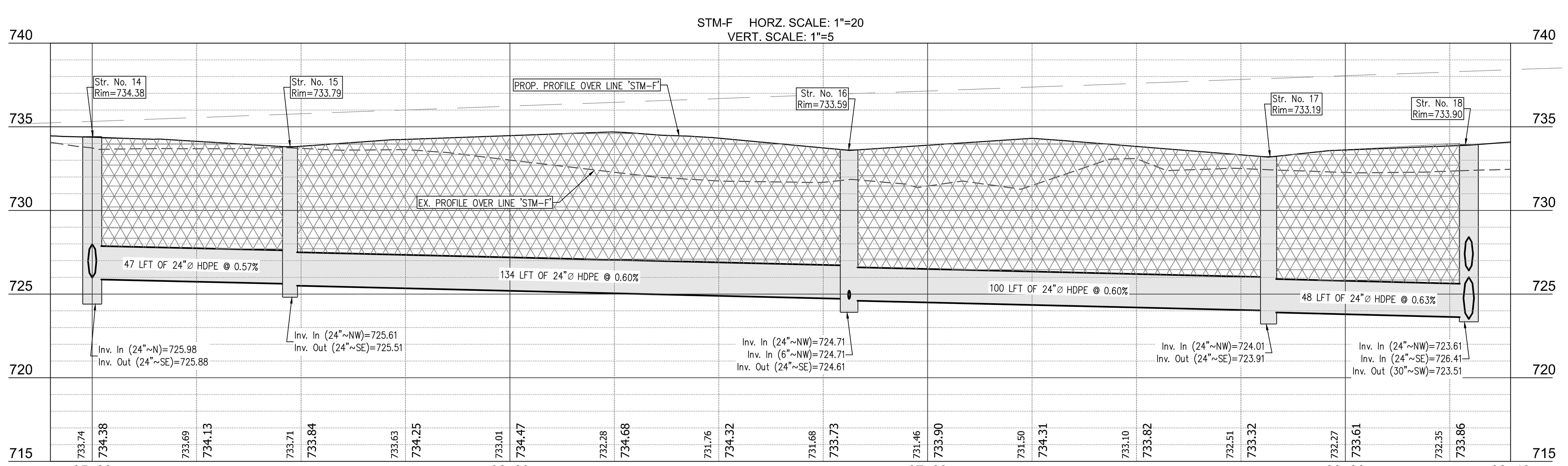

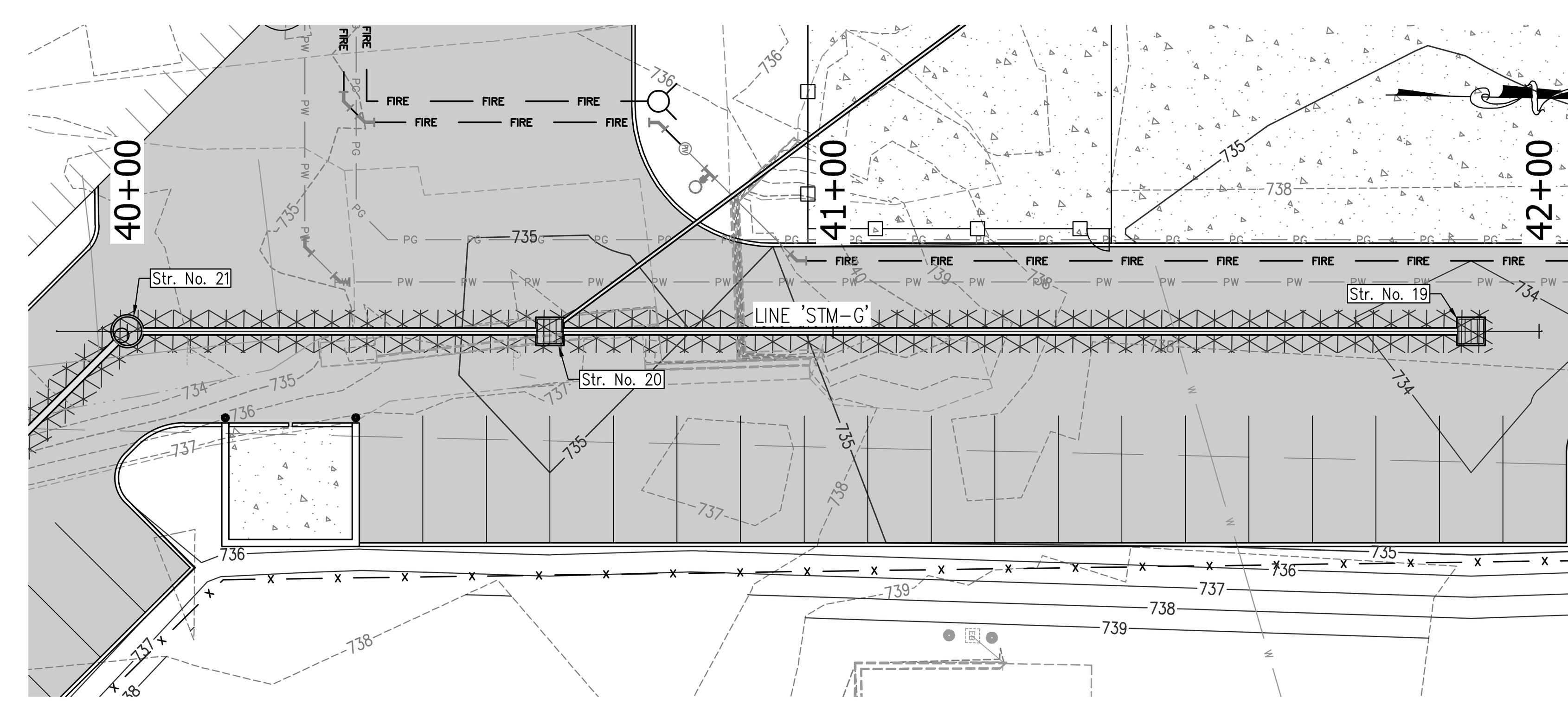

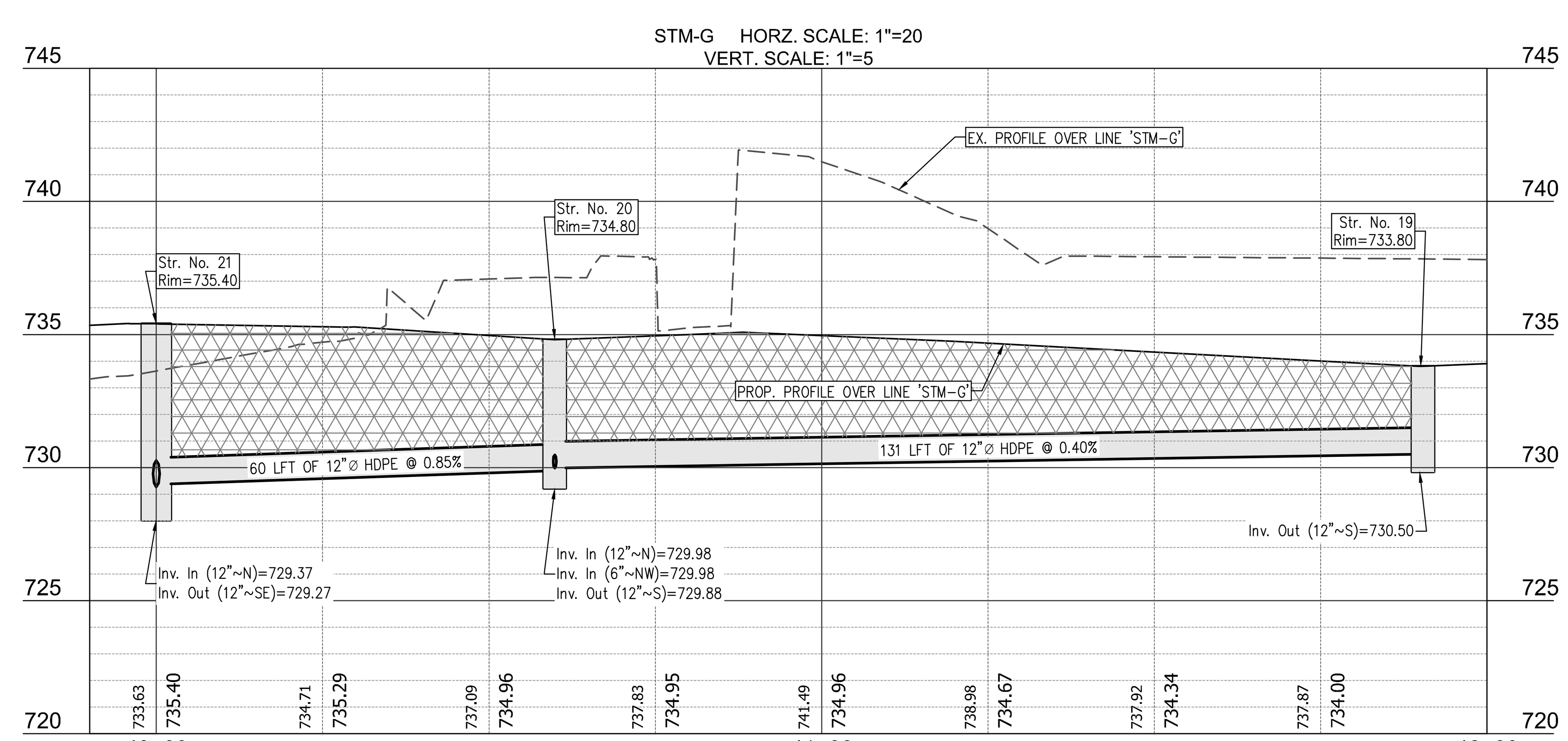

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Johnson County Court Services
1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN	GJI	CHECKED	GJI
DESIGNED	BRV	APPR.	DEP

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STORM PLAN & PROFILE

C-601

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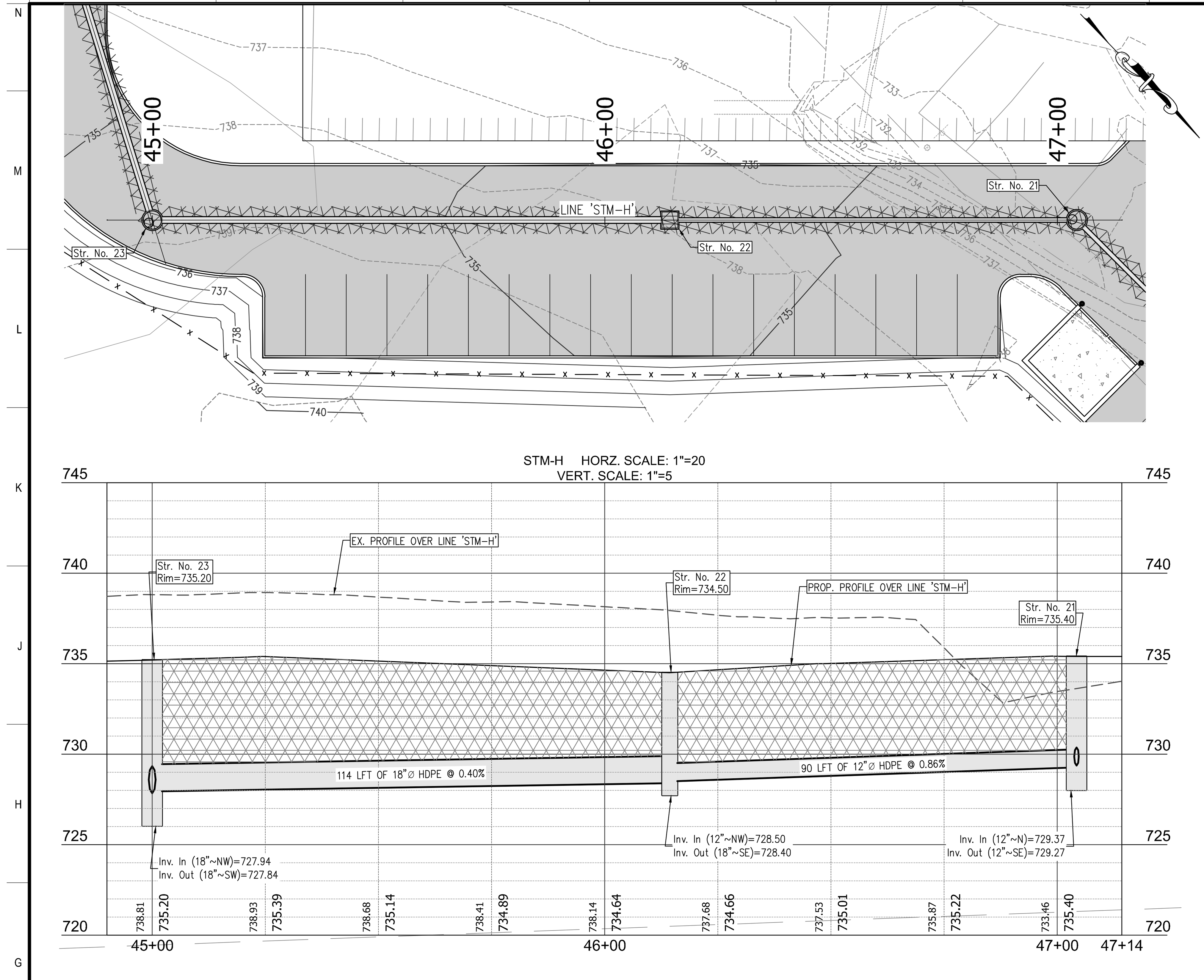

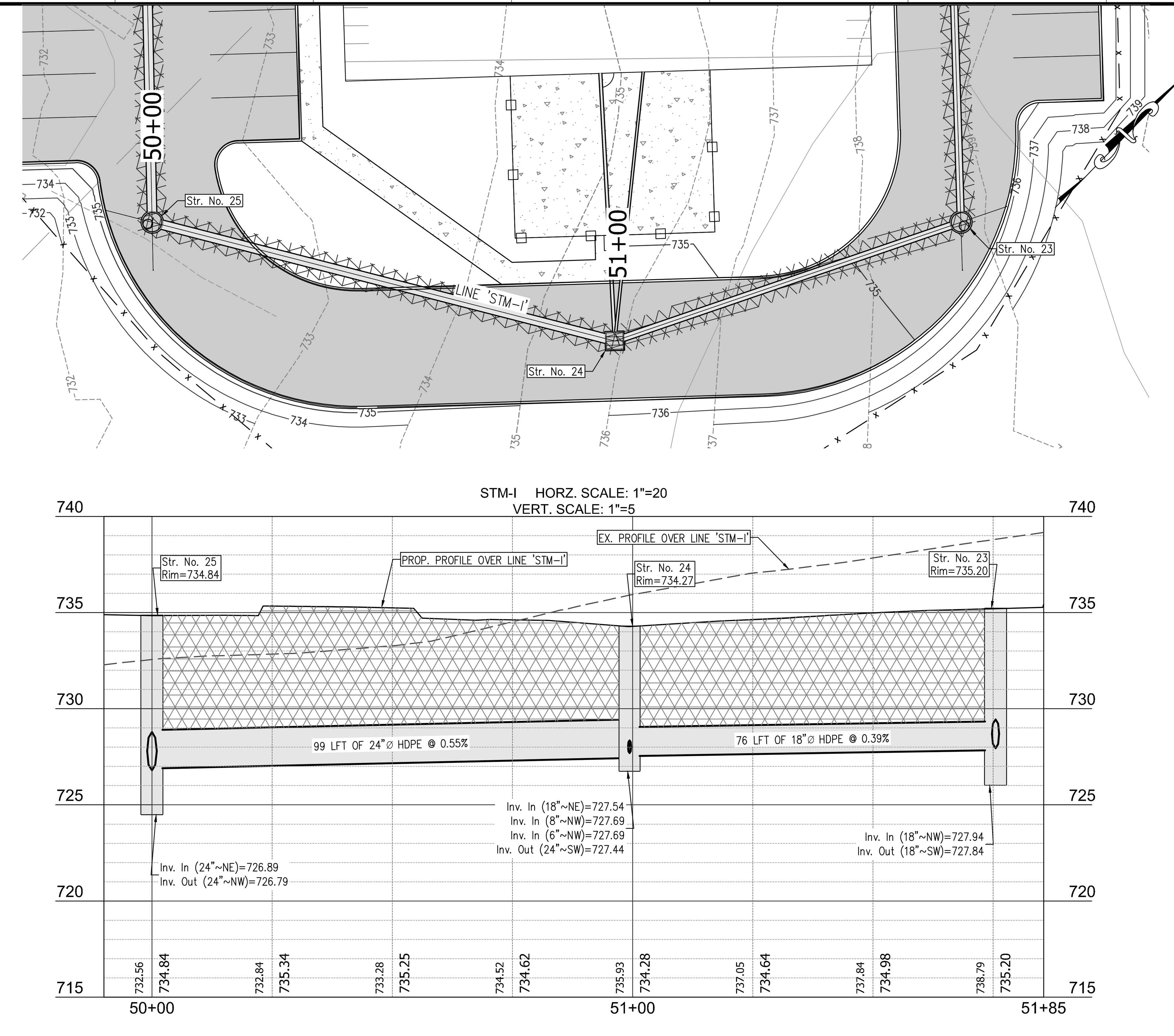

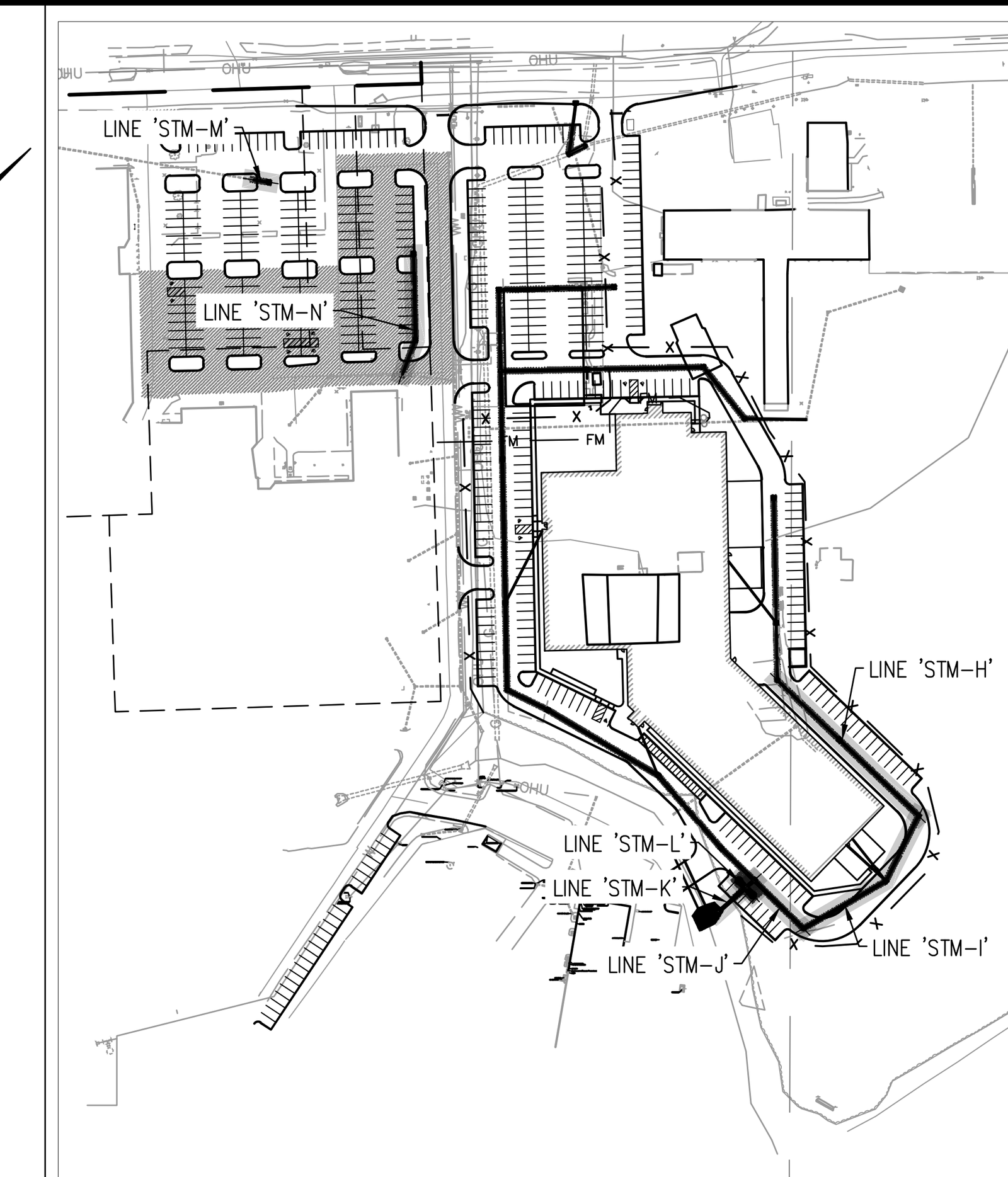

KEYMAP

NO SCALE

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20 0 20 40

SCALE: 1" = 20'

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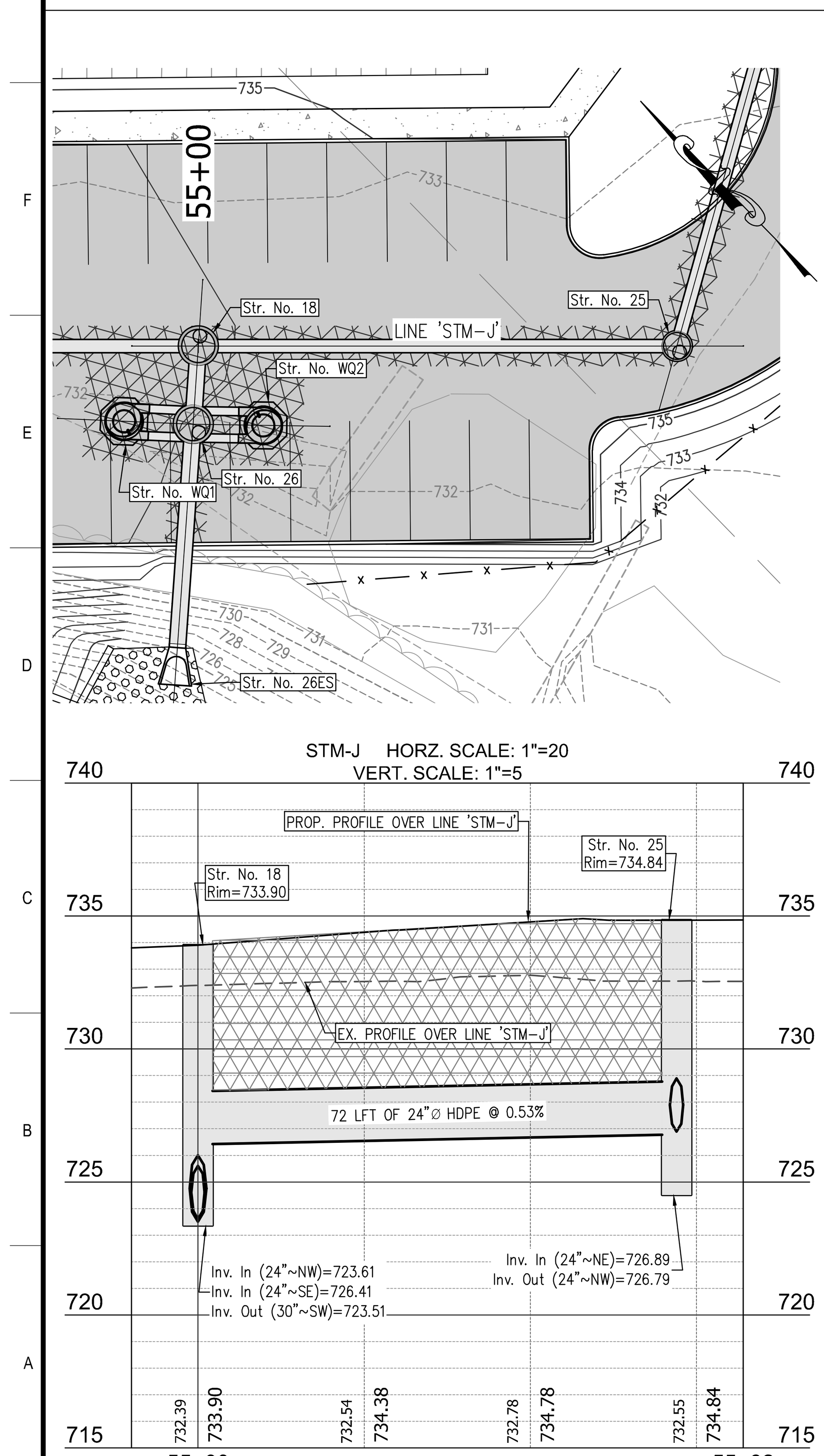

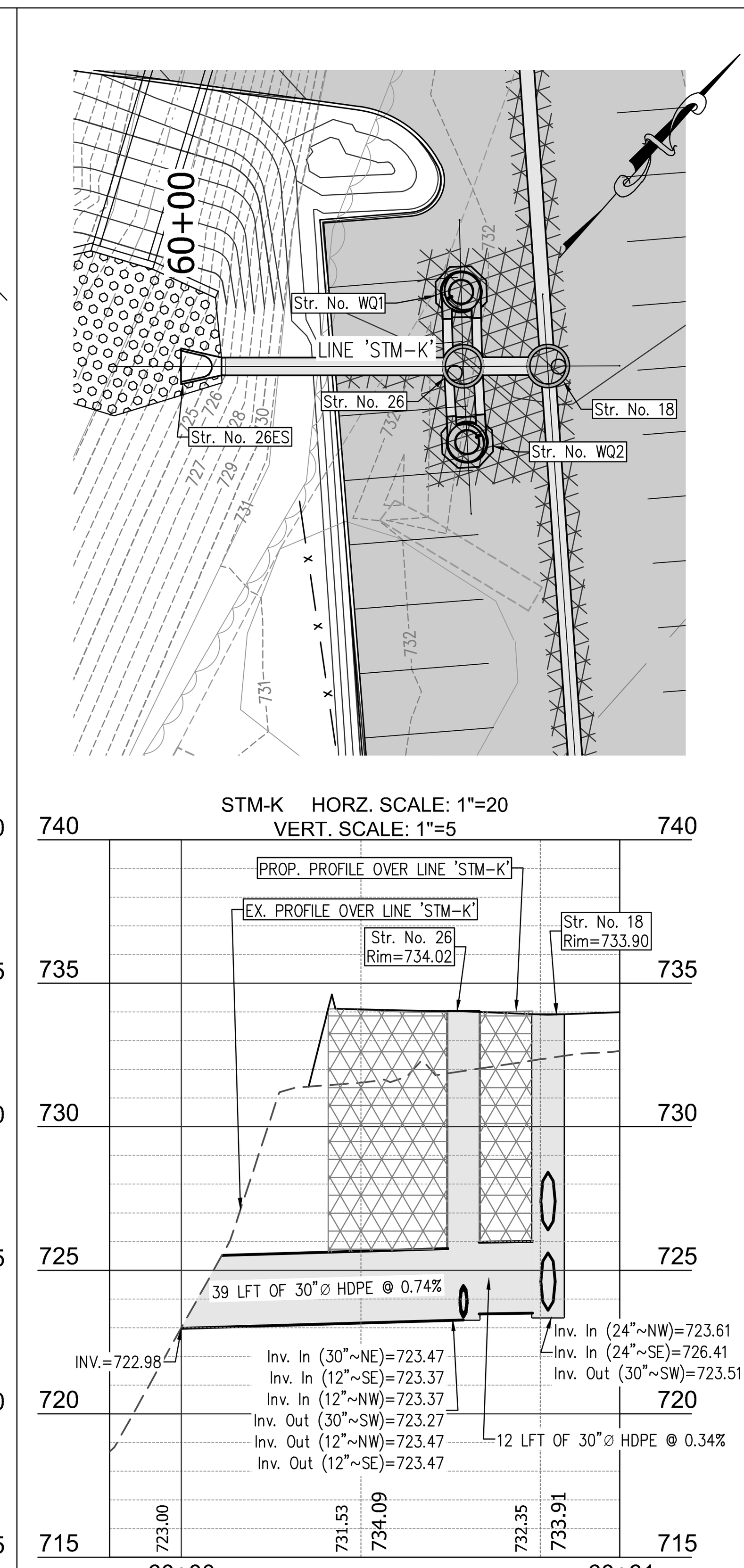

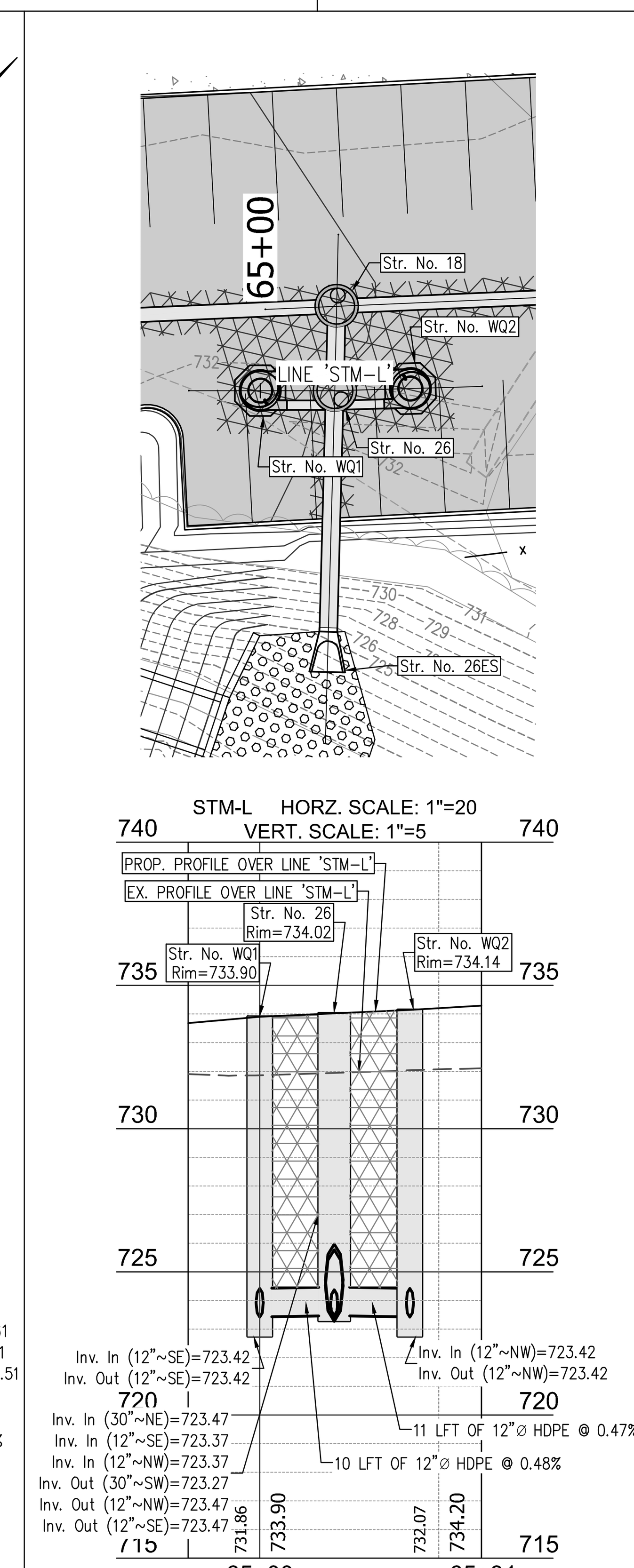

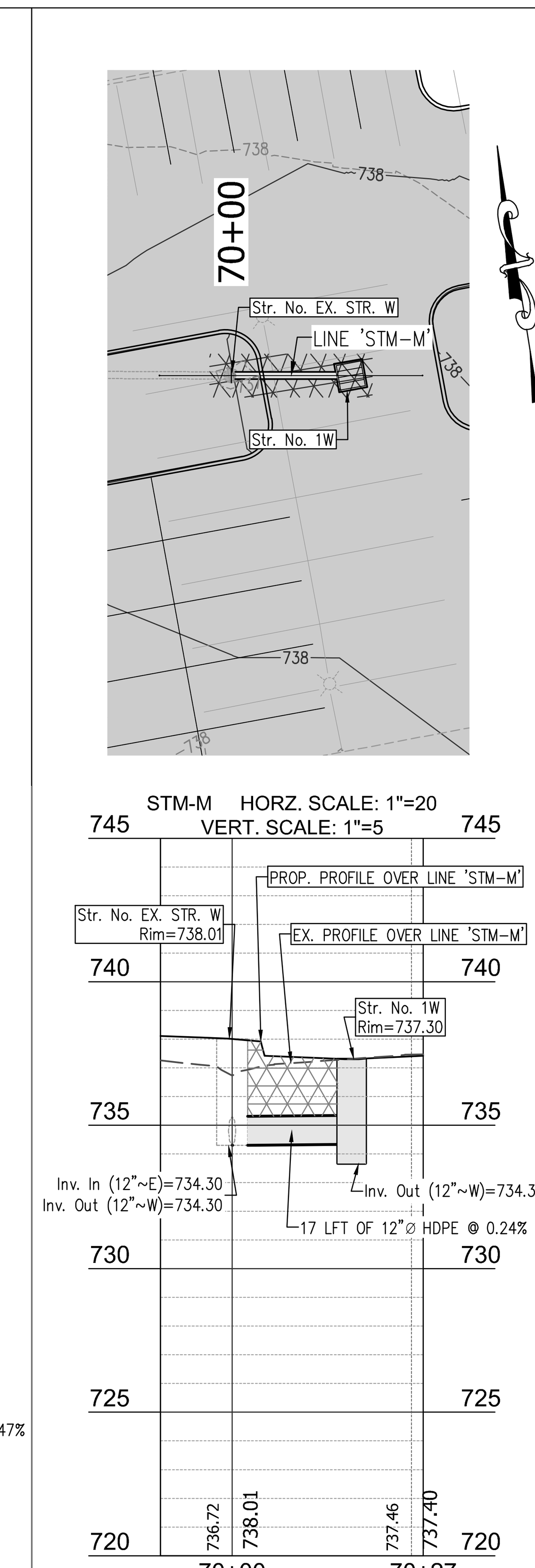

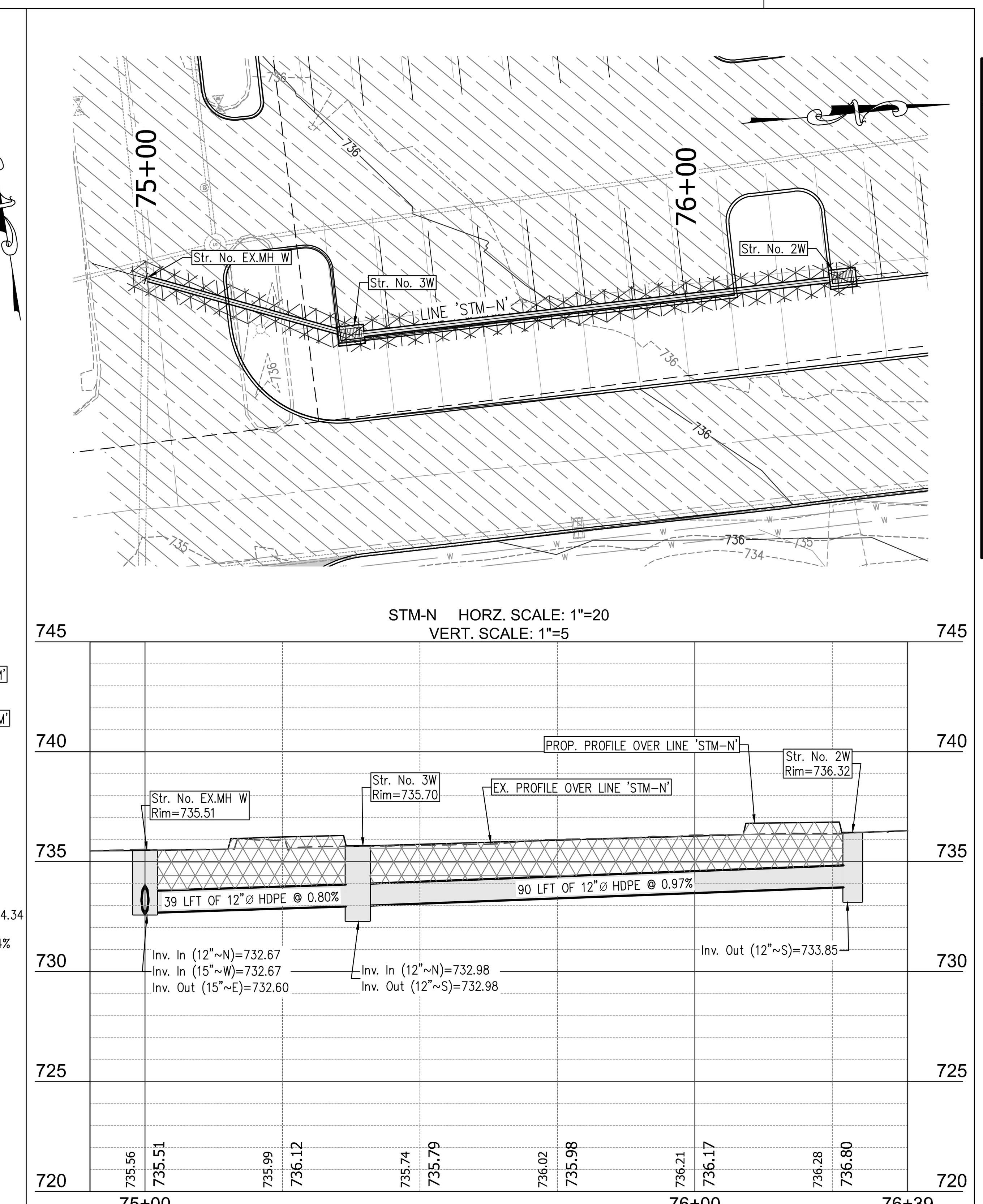

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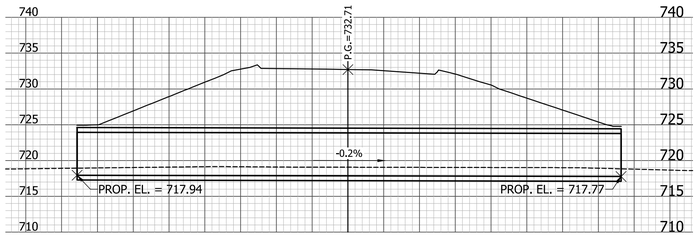
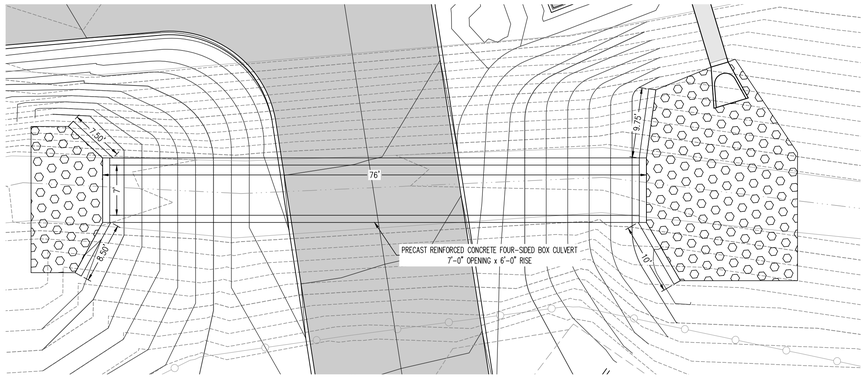
PROJECT NO. 2301301
ISSUE DATE 8-30-2024
SUBMITTAL 100% Construction Document Set

STORM PLAN & PROFILE

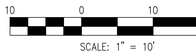
C-602



SECTION
Scale: 1" = 10'



PLAN
Scale: 1" = 10'



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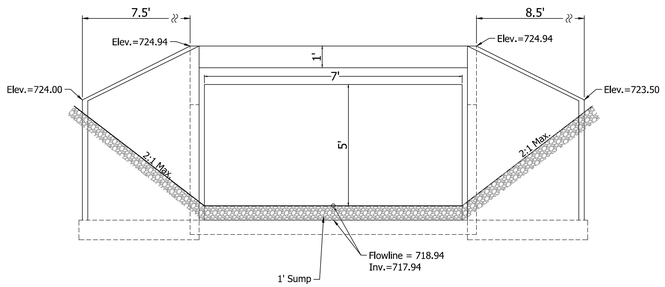
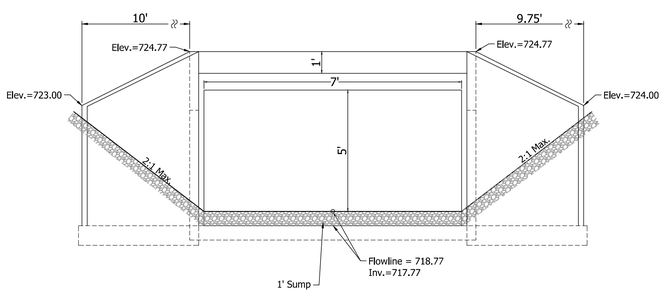


ELEVATION - NORTH WALL - UPSTREAM END
No Scale



ELEVATION - SOUTH WALL - DOWNSTREAM END
No Scale

WINGWALL AREAS (SFT.)	
A	45.9
B	56.2
C	61.2
D	64.5

ALL STORM, SANITARY AND UTILITY TABLES ARE LOCATED ON SHEET C-401

NOTE:
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GENERAL NOTES

Headwalls and wingwalls may be precast or cast in place.

DESIGN DATA

Live Load

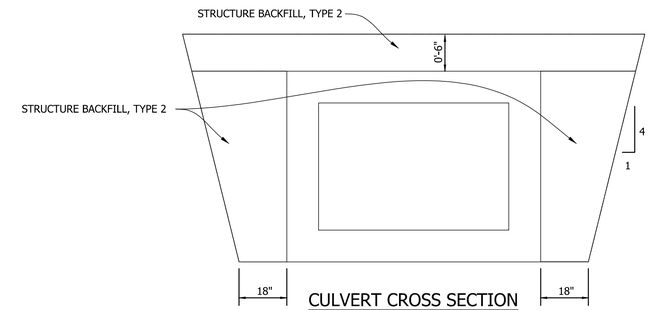
The Structure shall be designed for HL-93 loading in accordance with AASHTO LRFD Bridge Design Specifications, 6th Edition, and all subsequent interim specifications.

Dead Load

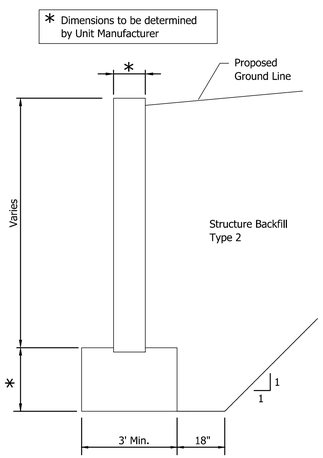
Designed for self-weight plus 35 psf for future wearing surface.

HYDRAULIC DATA

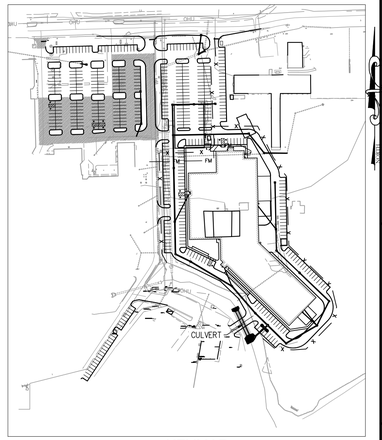
DRAINAGE AREA	67.7 acres
Q100	198.25 cfs
ROADWAY OVERFLOW WATERWAY AREA	0 ft



CULVERT CROSS SECTION
No Scale



WINGWALL SECTION
No Scale



KEYMAP
NO SCALE

NOTES

1. SEE CONTRACT DOCUMENTS FOR THE GEOTECHNICAL REPORT.
2. THE PRECAST STRUCTURE SUPPLIER SHALL BE RESPONSIBLE FOR THE WINGWALL AND FOUNDATION DESIGN. THE SUPPLIER SHALL SUBMIT, THROUGH THE CONTRACTOR, CALCULATIONS AND SEALED DESIGN DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL.
3. IF, DURING EXCAVATION FOR THE BOX CULVERT STRUCTURE AND WINGWALL FOOTINGS, THE SOILS BELOW ARE FOUND TO BE INSUFFICIENT, THE SOILS SHALL BE UNDERCUT BY AT LEAST 18 INCHES. THE SOIL EXPOSED AT THE BASE OF THE UNDERCUT SHALL BE COMPACTED AND THEN COVERED WITH A GEOTEXTILE FABRIC FOR USE UNDER RIPRAP, TYPE 1A, AND SHALL INCLUDE SUFFICIENT EXCESS TO WRAP THE AGGREGATE AS FOLLOWS: 12 INCHES OF NO. 5 STONE SHALL BE PLACED ON THE GEOTEXTILE, AND THE EXCESS GEOTEXTILE SHALL BE WRAPPED AROUND AND OVER THE NO. 5 STONE; 6 INCHES OF NO. 53 STONE SHALL BE PLACED ON THE GEOTEXTILE OVER THE NO. 5 STONE TO THE ELEVATION OF THE BOTTOM OF THE STRUCTURE AND WINGWALL FOOTINGS.
4. CLEAN EARTHEN FILL DIRT AND ANY OTHER FILL MATERIAL MUST BE FREE FROM ANY HAZARDOUS WASTE OR REGULATED SOLID WASTE.

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CULVERT DETAILS

C-700

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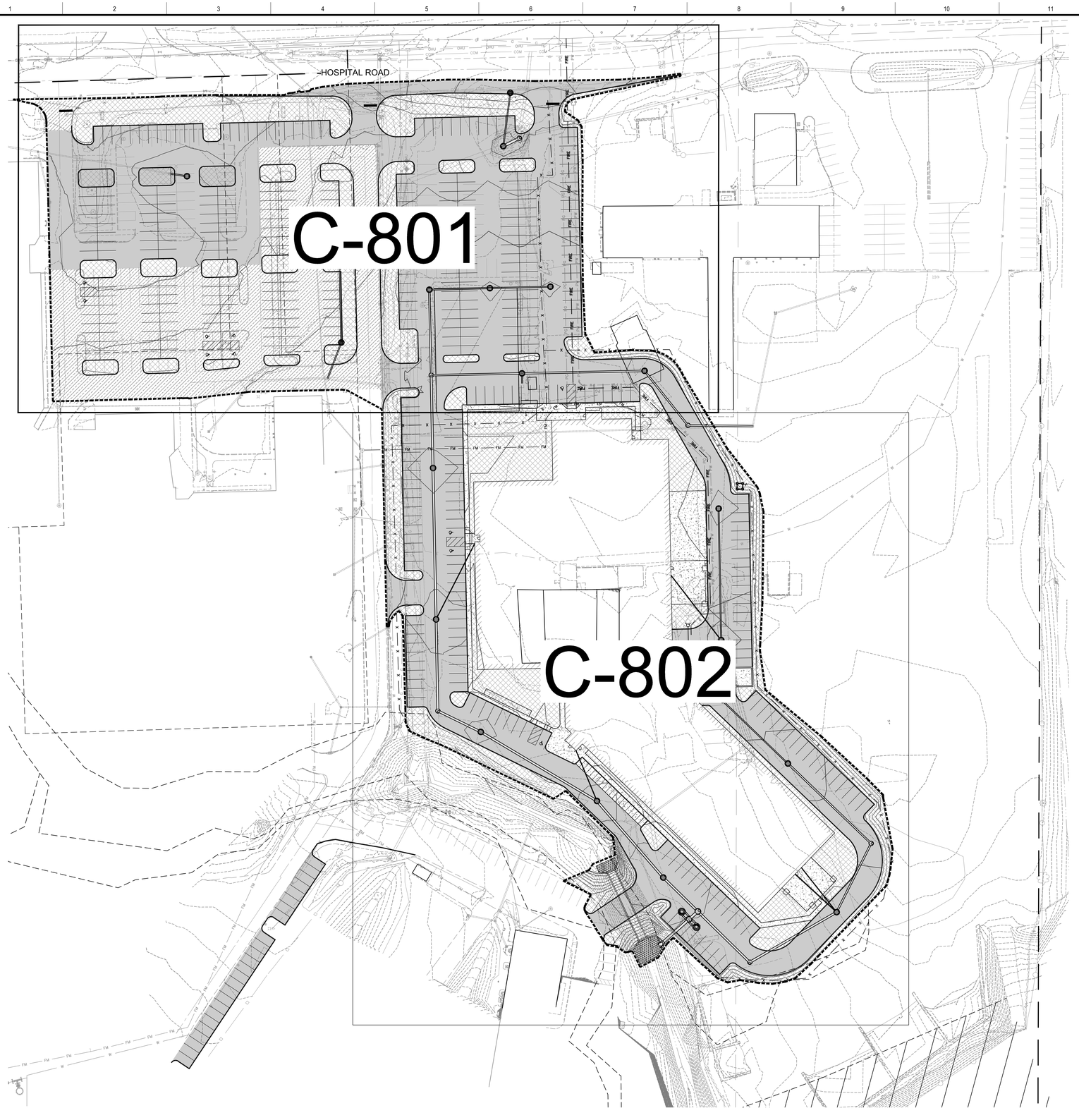

50 0 50 100

SCALE: 1" = 50'

EXISTING CONTOUR INTERVAL = 1'
PROPOSED CONTOUR INTERVAL = 1'

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE OR COUNTY OFFICIALS

EROSION CONTROL LEGEND

- MULCHED SEEDING
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC-150 OR EQUAL) AND MULCHED SEEDING
- REVETMENT RIPRAP
- CONSTRUCTION DRIVE (SEE DETAIL THIS SHEET)
- MOUNDING (SEE ARCHITECTURAL PLANS)
- 800 EXISTING CONTOURS
- 800 PROPOSED CONTOURS
- SILT FENCE SLOPE CHECK (NUTEC 3 NWS-6 OR APPROVED EQUAL)
- CONSTRUCTION LIMITS
- (A) CURB INLET PROTECTION (SEE DETAIL-SHEET C-801)
- (B) CONCRETE WASHOUT AREA (SEE DETAIL-SHEET C-801)

EROSION CONTROL NOTES

1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, COUNTY, OR LOCAL OFFICIALS.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
3. CONSTRUCTION STAGING AREA (TO BE DETERMINED BY CONTRACTOR) SHALL INCLUDE THE NOI POSTING, PORT-O-LETS, TRASH CONTAINERS, AND FUELING TANKS. CONTRACTOR SHALL NOT LOCATE STAGING AREA WITHIN PROPOSED PARKING LOT.
4. A TRAINED INDIVIDUAL MUST PERFORM AN INSPECTION ONCE A WEEK AND AFTER EVERY ½" OR MORE RAIN EVENT. A LOG OF THE INSPECTION REPORTS MUST BE KEPT AND MADE AVAILABLE TO THE CITY INSPECTOR UPON REQUEST.
5. THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIALS WITHIN THE EXISTING STREET OR RIGHT-OF-WAYS, OR PROPOSED PARKING AREAS.
6. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL AND THE S.C.S. "FIELD OFFICE TECHNICAL GUIDE".
7. ALL STORM WATER CASTINGS SHALL BE PHASE II COMPLIANT.
8. CONTRACTOR SHALL UTILIZE 12 OZ/SQ. YD. MINIMUM WEIGHT, NON-WOVEN NEEDLE PUNCHED GEOTEXTILE FABRIC BENEATH ALL RIPRAP USED FOR OUTLET PROTECTION.
9. ALL PORT-O-LETS MUST BE ANCHORED DOWN TO PREVENT SPILLS.
10. THE CITY ENGINEER HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT.
11. THE TRAINED INDIVIDUAL RESPONSIBLE FOR ALL EROSION CONTROL MEASURE INSTALLATION AND MAINTENANCE IS: KEVIN WALLS, JOHNSON COUNTY BOARD OF COMMISSIONERS, PHONE: (317) 346-4306, EMAIL: kwalls@co.johnson.in.us

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OVERALL EROSION CONTROL PLAN

C-800

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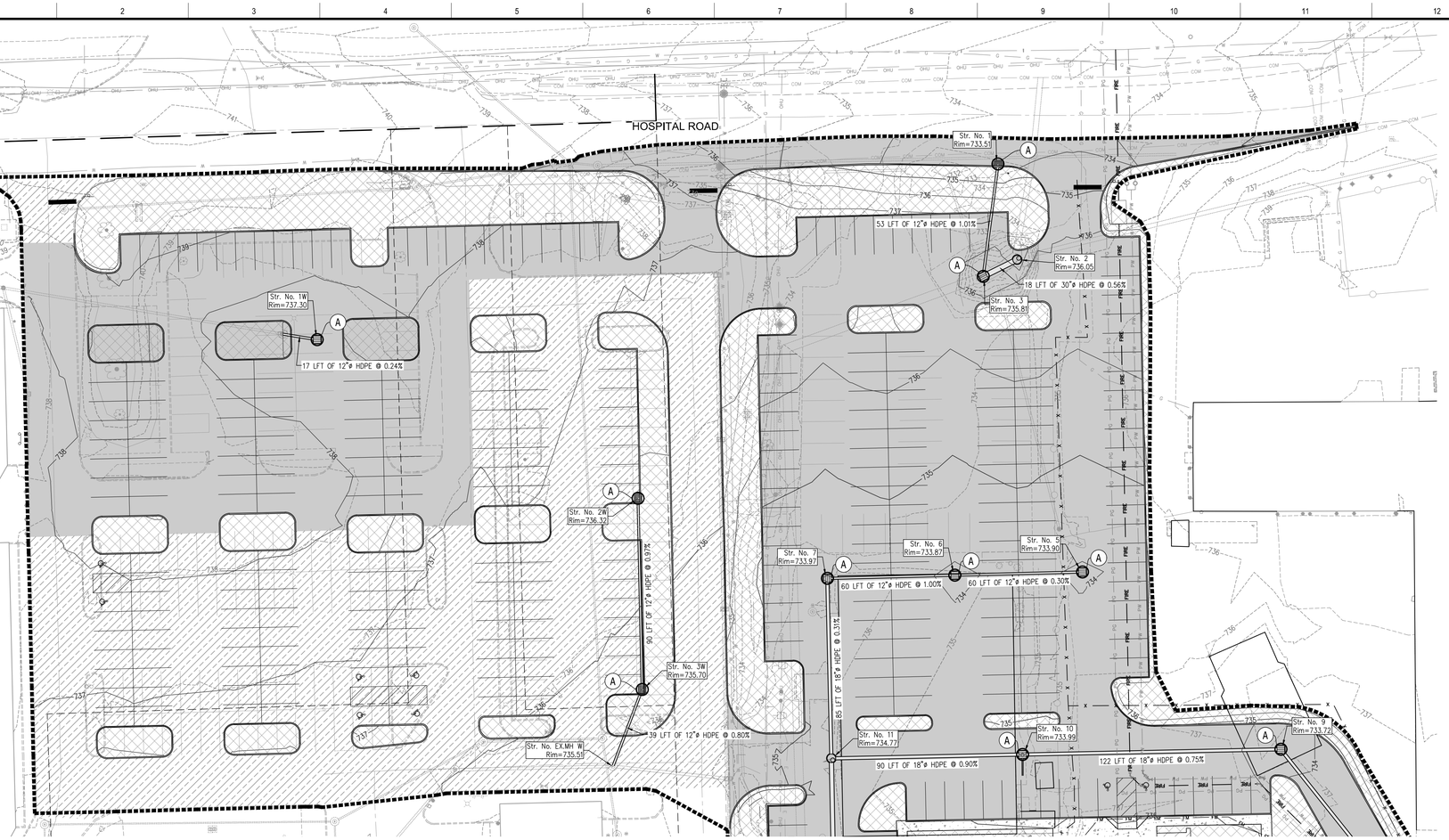

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

30 0 30 60

SCALE: 1" = 30'

EXISTING CONTOUR INTERVAL = 1'
PROPOSED CONTOUR INTERVAL = 1'

EROSION CONTROL LEGEND

- MULCHED SEEDING
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC-150 OR EQUAL) AND MULCHED SEEDING
- REVETMENT RIPRAP
- CONSTRUCTION DRIVE (SEE DETAIL THIS SHEET)
- MOUNDING (SEE ARCHITECTURAL PLANS)
- 800 EXISTING CONTOURS
- 800 PROPOSED CONTOURS
- SILT FENCE SLOPE CHECK (NUTEC 3 NWS-6 OR APPROVED EQUAL)
- CONSTRUCTION LIMITS
- (A) CURB INLET PROTECTION (SEE DETAIL-SHEET C-801)
- (B) CONCRETE WASHOUT AREA (SEE DETAIL-SHEET C-801)

EROSION CONTROL NOTES

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2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
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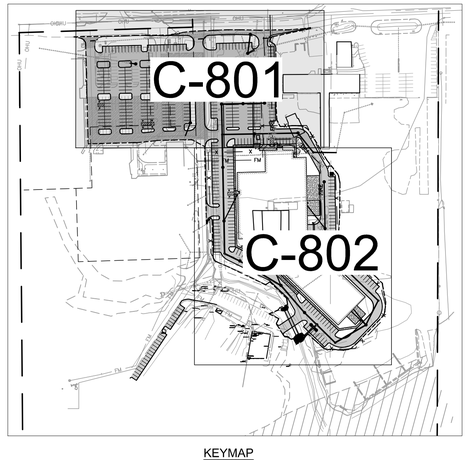
5. THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIALS WITHIN THE EXISTING STREET OR RIGHT-OF-WAYS, OR PROPOSED PARKING AREAS.
6. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL AND THE S.C.S. "FIELD OFFICE TECHNICAL GUIDE".
7. ALL STORM WATER CASTINGS SHALL BE PHASE II COMPLIANT.
8. CONTRACTOR SHALL UTILIZE 12 OZ/SQ. YD. MINIMUM WEIGHT, NON-WOVEN NEEDLE PUNCHED GEOTEXTILE FABRIC BENEATH ALL RIPRAP USED FOR OUTLET PROTECTION.
9. ALL PORT-O-LETS MUST BE ANCHORED DOWN TO PREVENT SPILLS.
10. THE CITY ENGINEER HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT.
11. THE TRAINED INDIVIDUAL RESPONSIBLE FOR ALL EROSION CONTROL MEASURE INSTALLATION AND MAINTENANCE IS: KEVIN WALLS, JOHNSON COUNTY BOARD OF COMMISSIONERS, PHONE: (317) 346-4306, EMAIL: kwalls@co.johnson.in.us



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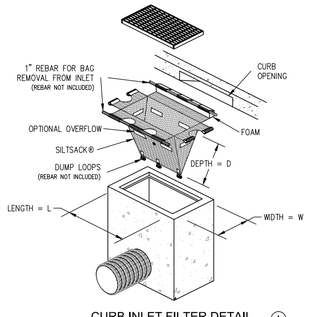
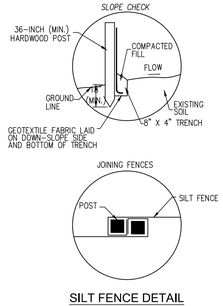
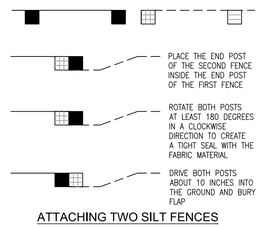


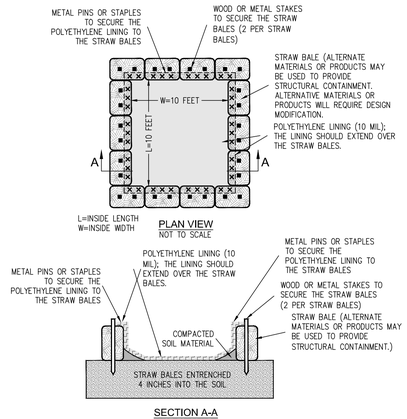
CURB INLET FILTER DETAIL (A)
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE



ATTACHING TWO SILT FENCES



CONCRETE WASHOUT DETAIL (B)
NOT TO SCALE

INDIANA Know what's below. Call before you dig. 811

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FILENAME : C-801 Erosion Control Plan.dwg
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ELEVATUS
ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 ElevatusArchitecture.com

SEAL

BRADY THOMAS VAUGHAN
REGISTERED
No. 12400527
STATE OF INDIANA
PROFESSIONAL ENGINEER

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

Johnson County Court Services

1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN	CHECKED
DEP	GJI
DESIGNED	APPR.
BRV	GJI

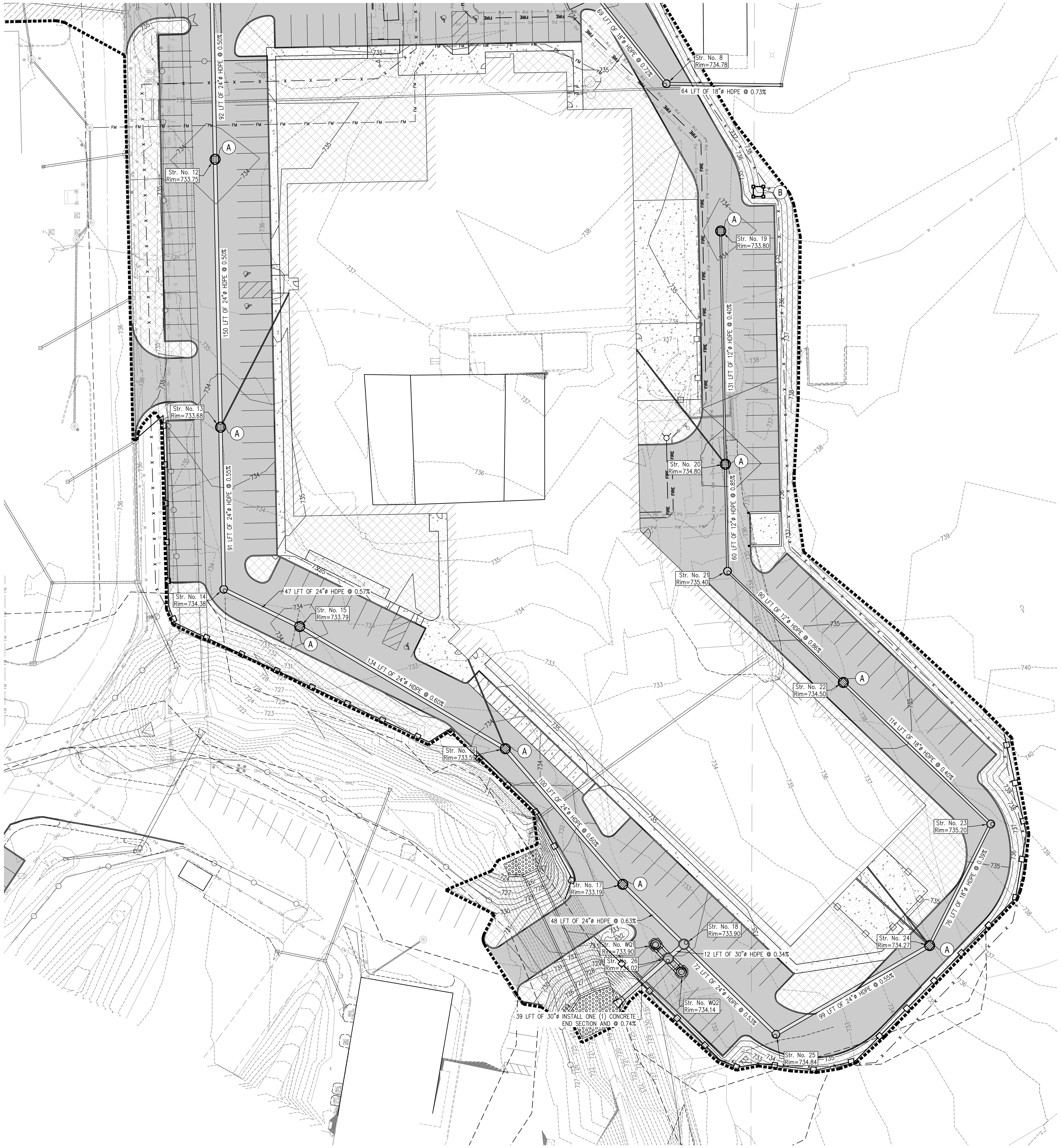
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301301
ISSUE DATE 8-30-2024
SUBMITTAL 100% Construction Document Set

EROSION CONTROL PLAN

C-801



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	REVETMENT RIPRAP
	CONSTRUCTION DRIVE (SEE DETAIL THIS SHEET)
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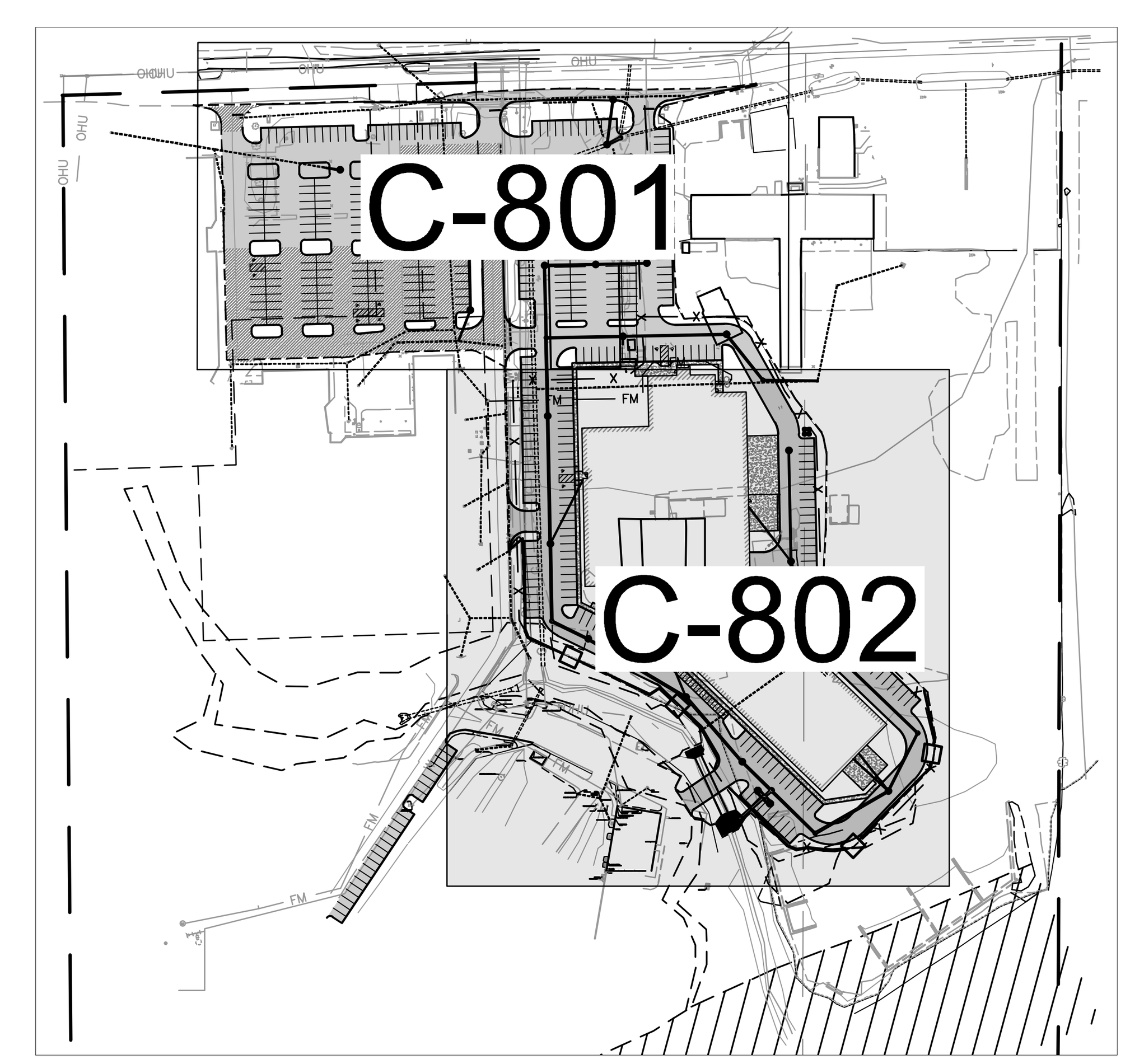

KEYMAP
NO SCALE

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WRITTEN DIMENSIONS ON THESE DOCUMENTS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS AND OR DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

SEAL

BRADY THOMAS VAUGHAN
REGISTERED
No. 12400527
STATE OF INDIANA
PROFESSIONAL ENGINEER

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Johnson County Court Services
1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN	DEP	CHECKED	GJI
DESIGNED	BRV	APPR.	GJI

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO.	ISSUE DATE
2301301	8-30-2024

SUBMITTAL
100% Construction Document Set

EROSION CONTROL PLAN

C-802

INDIANA 811
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FILENAME : C-802 Erosion Control Plan.dwg
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EROSION CONTROL PLAN INDEX

PLAN ELEMENTS

A1

CSGP EROSION CONTROL PLAN INDEX

ELEMENT	SHEET	ELEMENT	SHEET	ELEMENT	SHEET	ELEMENT	SHEET
A4	ECDC-803	A19	UTILC-401-C-402	B4	ECPC-801-C-802 & ECDC-803	B11	ECPC-801-C-802 & ECDC-803
A5	ECDC-803	A21	ECPC-801-C-802	B5	ECPC-801-C-802 & ECDC-803	B12	ECPC-801-C-802 & ECDC-803
A6	ECPC-801-C-802	A22	ECPC-801-C-802	B6	ECPC-801-C-802 & ECDC-803	B13	ECDC-803
A15	ECPC-801-C-802	A23	ECPC-801-C-802	B7	ECPC-801-C-802 & ECDC-803	B14	ECDC-803
A16	ECPC-801-C-802	B2	ECDC-803	B9	ECPC-801-C-802 & ECDC-803		
A18	ECDC-803	B3	ECDC-803	B10	ECPC-801-C-802 & ECDC-803		

A2 VICINITY MAP
A vicinity map depicting the project site location is located in right half of the Stormwater Pollution Prevention Plan.

A3 PROJECT NARRATIVE
The project involves the construction of a new Johnson County Court Services Building. The project is located along Hospital Road, Franklin, IN. Drive aisles, curbs, parking and walks necessary for the new building shall be constructed as part of the construction plans herein. A storm sewer system shall be utilized for stormwater collection. Drainage will discharge into the unnamed tributary of Young's Creek located south of the new building. Water, sanitary, telephone, cable, gas, and electric utilities shall serve the property as well. Construction is anticipated to begin in the Winter 2024.

A4 LATITUDE & LONGITUDE
Latitude N 39°28'37" Longitude W 86°04'29"

A5 LEGAL DESCRIPTION
The Legal Description of the project site is located in the lower right quadrant of the Stormwater Pollution Prevention Plan.

A6 11 BY 17 INCH PLAT
The 11x17 inch Plat has been submitted to the respective Soils and Water Conservation District.

A7 100 YEAR FLOOD PLAINS, FLOODWAYS AND FLOODWAY FRINGES
By graphic plotting only, this tract of land described hereon lies within Zone 'X' (areas outside the 500-Year Floodplain) and is not in a Special Flood Hazard Area as plotted on the Federal Emergency Management Agency Flood Insurance Rate Map for Johnson County, Indiana, Community Panel No. 18081C0227E, which bears an effective date of 1/29/2021. Also, by graphic plotting only, there are portions of land within the IDNR Best Available Flood Zone Database that are within Zone 'AE' (1% Annual Chance Flood Hazard).

A8 ADJACENT LAND USE
The adjacent landuses are labeled on the Erosion Control Plan.

A9 DESCRIPTION OF TOTAL MAXIMUM DAILY LOAD (TMDL) REPORT
Not applicable to this project/watershed/receiving waters.

A10 RECEIVING WATERS
The receiving water for this project is Young's Creek.

A11 DESCRIPTION OF 303(d) LIST
Not applicable to this project/watershed/receiving waters

A12 SOILS MAP AND DESCRIPTIONS
The soils map and all pertinent soil type information are located on the upper right quadrant of the Stormwater Pollution Prevention Plan.

A13 WETLANDS, LAKES AND WATER COURSES.
There are no potential wetland areas located within the project site, nor shall any potential wetland areas be disturbed as a result of construction.

A14 STATE AND/OR FEDERAL WATER QUALITY PERMITS
An IDEM CSGP will be required for this project as well as a Section 401 WQC Regional General Permit.

A15 EXISTING VEGETATIVE COVER
The existing site is primarily covered with existing pavement and gravel. There are several existing buildings on site as well as grass islands throughout the site.

A16 EXISTING SITE TOPOGRAPHY
Existing one-foot contours are shown on the Erosion Control Plan.

A17 EXISTING RUN-OFF ENTRANCE AREA
Run-off currently enters the site from Hospital Road to the north.

A18 EXISTING RUN-OFF DISCHARGE AREA
Run-off from the site is collected by the existing storm sewer system and discharged into the creek south of the site. Other areas of run-off are discharged directly into the creek.

A19 EXISTING STORMWATER SYSTEMS
The existing stormwater system sizes and dimensions are labeled on the Topographic Survey Plan.

A20 EXISTING RETENTION/DETENTION FACILITIES
There are no existing retention/detention facilities onsite.

A21 POTENTIAL DISCHARGES TO GROUND WATER
There are no potential locations where stormwater may enter the groundwater.

A22 TOTAL PROJECT AREA
The total project area covers ±7.83 acres.

A23 EXPECTED DISTURBED AREA
The expected project land disturbance is ±7.83 acres.

A24 PROPOSED SITE TOPOGRAPHY
Proposed one-foot contours are shown on the Erosion Control Plan.

A25 DISTURBED AREAS
The construction limits (boundary of disturbed area) are shown on the Erosion Control Plan.

A26 PROPOSED STORMWATER SYSTEMS
The proposed stormwater system sizes and dimensions are labeled on the Erosion Control Plan.

A27 PROPOSED STORMWATER DISCHARGE
Proposed stormwater will discharge into the existing and proposed storm sewer systems before discharging into the creek at the south end of the site.

A28 SITE IMPROVEMENTS
All site improvements are shown on the Erosion Control Plan.

A29 SOIL STOCKPILES, BORROW/DISPOSAL AREAS
Topsoil shall be stockpiled in a convenient location (as determined by the owner and/or contractor) within the construction site as shown on the Erosion Control Plan.

A30 CONSTRUCTION SUPPORT ACTIVITIES
There are no construction support activities anticipated with these improvements.

A31 IN-STREAM ACTIVITIES
A culvert crossing will be constructed to complete the drive crossing over the unnamed tributary creek.

STORMWATER POLLUTION PREVENTION - DURING CONSTRUCTION

B1 POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
There is a potential for pollutants associated with construction machinery including diesel fuel, hydraulic fluid, engine oils and lubricants, antifreeze and other petroleum products. It is unavoidable for a small amount of these pollutants to contaminate soil in the grading and construction of the site. Sediment pollution from site disturbing activities shall be remedied by Erosion Control measures (see following sections).

B2 CONSTRUCTION ENTRANCE
The construction entrance shall be constructed in the northern section of the project off of Hospital Road. Specifications and details are located on the Stormwater Pollution Prevention Plan.

B3 TEMPORARY & PERMANENT STABILIZATION
Temporary & Permanent surface stabilization methods are shown on the Erosion Control Plan and detailed on the Stormwater Pollution Prevention Plan.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS
Sediment Control measures for concentrated flow areas are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS
Sediment Control measures for Sheet flow areas are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

B6 RUNOFF CONTROL MEASURES
Runoff control measures are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

B7 STORMWATER OUTLET PROTECTION MEASURES
Stormwater outlet protection measures are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

B8 GRADE STABILIZATION STRUCTURES
No grade stabilization structures are required for this project.

B9 DEWATERING ACTIVITIES
If required during excavation operations, dewatering shall be completed as shown on the Erosion Control Plan. Specifications and details are located on the Erosion Control Plan and Stormwater Pollution Prevention Plan.

B10 WATERBODY QUALITY MEASURES
Measures utilitized for work within waterbodies are shown on the Erosion Control Plan and associated details/specifications are shown on the Stormwater Pollution Prevention Plan.

B11 MONITORING AND MAINTENANCE GUIDELINES
Monitoring and Maintenance Guidelines are located in the middle on the Stormwater Pollution Prevention Plan

B12 PLANNED CONSTRUCTION GUIDLINES
Planned Construction Sequence guidelines are located in the middle on the Stormwater Pollution Prevention Plan.

B13 EROSION & SEDIMENT CONTROL MEASURES FOR INDIVIDUAL BUILDING LOTS
Not applicable, as this is to be developed as a single site/property.

B14 MATERIAL HANDLING AND SPILL PREVENTION
Spill prevention shall be accomplished by utilizing spillguards for equipment fueling and servicing operations. Spillguards shall be 3'x3'x6" and shall be constructed of a material resistant petroleum products (including diesel fuel and oil). On-site fuel storage tanks shall have emergency storage capacity directly below the tank in case of rupture. Any hazardous material spillage shall be collected and/or cleaned immediately by a trained individual and disposed of in accordance with all federal, state and local regulations.

Indiana Department of Environmental Management
Office of Emergency Response (317) 233-7745, Toll Free (800) 233-7745
Franklin Fire Department (317) 736-3651
Additional Material Handling and Spill Prevention (this sheet)

B15 MATERIAL HANDLING AND STORAGE
Material Handling and Storage Procedure guidelines are located in the middle on the Stormwater Pollution Prevention Plan.

STORMWATER POLLUTION PREVENTION - POST CONSTRUCTION

C1 PROPOSED POLLUTANTS AND SOURCES ASSOCIATED WITH PROPOSED LAND USE
Potential pollutants include petroleum products and antifreeze from automobiles using the parking areas and sediment.

C2 PROPOSED POST CONSTRUCTION STORMWATER MEASURES
Post construction stormwater quality measures shall consist of two mechanical water quality units.

C3 LOCATION, DIMENSIONS, SPECIFICATIONS AND DETAILS OF EACH STORMWATER QUALITY MEASURE
The location of the mechanical water quality units is shown on the construction plans.

C4 STORMWATER QUALITY MEASURE IMPLEMENTATION
Stormwater quality measures are implemented by construction of the site improvements which include installation of the mechanical water quality units for stormwater quality treatment.

C5 MAINTENANCE GUIDELINES OF POST CONSTRUCTION STORMWATER QUALITY MEASURES
All landscape areas shall be maintained by mowing, removing trash and debris, and re-planting any vegetated areas as necessary. The proposed storm sewer inlets shall be inspected for blockage of any type after each storm event. All obstructions, trash, and debris shall be removed upon inspection. Maintenance and inspection of the mechanical water quality units shall be performed in accordance with the manufacturer's recommendation ands the Operations and Maintenance (O&M) Manual approved by the City of Franklin.

C6 PARTY RESPONSIBLE FOR POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION
Owner: Johnson County, Kevin Walls, Phone: (317) 346-4306, Email: kwalls@co.johnson.in.us

MONITORING AND MAINTENANCE GUIDELINES

GRAVEL CONSTRUCTION DRIVE AND PARKING AREA:
A. Inspect daily and after each storm event. Immediately remove mud and sediment tracked or washed onto public roads.
B. Top dress with clean aggregate as needed. Reshape pad as needed for drainage and runoff control.
C. Flushing should only be used if the water can be conveyed into a sediment trap or basin.

TOPSOIL:
A. Inspect daily until vegetation is established.
B. Check for erosion or damage of newly spread topsoil and repair immediately.

TEMPORARY AND PERMANENT SEEDING:
A. Inspect seeding within 24 hours of each rain event and at least once every seven calendar days until vegetation is established.
B. Check for erosion or movement of mulch and repair immediately.
C. Plan to add fertilizer the following growing season according to soil test recommendations.
D. Repair damaged, bare, or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching.
E. If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; repair the affected area either by over-seeding or by re-seeding and mulching after re-preparing the seed bed.
F. If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems.
G. If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.
H. Reference INDOT Specification 621.05.

EROSION CONTROL BLANKET:
A. Inspect within 24 hours of each rain event and at least once every seven calendar days. Check for erosion or displacement of the blanket.
B. If any area shows erosion, pull back that portion of the blanket covering the eroded area, add soil and tamp, re-seed the area, and re-lay and staple the blanket.
C. After vegetative establishment, check the treated area periodically.

MULCHING:
A. Inspect within 24 hours of each rain event to check for movement of mulch or for erosion.
B. If washout, breakage, or erosion is present, repair damage areas, re-seed, apply new mulch, and anchor mulch in place.
C. Continue inspections until vegetation is firmly established.
D. Reference INDOT Specification 621.05.

RIPRAP:
A. Inspect periodically for displaced rock material, slumping, and erosion at edges, especially downstream or downslope.

SILT FENCE:
A. Inspect within 24 hours of each rain event and at least once every seven calendar days.
B. If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately.
C. Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
D. Take care to avoid undermining the fence during clean out.
E. After the contributing drainage area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade and stabilize.

SILT SACK INLET PROTECTION:
A. Inspect the silt sack inlet protection periodically and after each ½" storm event.
B. Remove deposited sediment when it reaches half the height of the filter at the lowest point.
C. Remove the Silt Sack Inlet Protection and sediment deposits after contributing drainage area is stabilized.

FABRIC DROP INLET PROTECTION:
A. Inspect the fabric barrier after storm events, and make needed repairs immediately.
B. Remove sediment from the pool area to provide storage for the next storm. Avoid damaging or undercutting the fabric during sediment removal.
C. When the contributing drainage area has been stabilized, remove and properly dispose of all construction material and sediment, grade the area to the elevation of the top of the inlet, then stabilize.

CONCRETE WASHOUT:
A. Concrete washout area shall be installed prior to any concrete placement on site.
B. Signs shall be placed at the construction entrance, at the washout area, and elsewhere as necessary to clearly indicate the location of the concrete washout area to operators of concrete trucks and pump rigs.
C. The concrete washout area shall be repaired and enlarged or cleaned out as necessary to maintain capacity for wasted concrete.
D. At the end of construction, all concrete shall be removed from the site and disposed of at an approved waste site.
E. When the concrete washout area is removed, the disturbed area shall be seeded and mulched or otherwise stabilized in a manner approved by the inspector.

CONSTRUCTION SEQUENCE & SCHEDULE OF EROSION CONTROL IMPLEMENTATION

1. Silt fence and/or straw bales shall be placed around existing structures and in ditches as shown in these plans before any land disturbing activities are started.
2. Schedule a pre-construction meeting with the City of Franklin 48 hours prior to start of earthwork.
3. Construct temporary gravel entrance in accordance with the "INDIANA STORM WATER QUALITY MANUAL". All other erosion control measures and detention areas shall be installed and constructed as shown at the beginning of the project.
4. Construct detention pond and install respective outlet structures.
5. Strip topsoil and stockpile as shown.
6. Rough grade site. Disturbed areas should be seeded immediately following rough grading. Areas that will not be disturbed again should be permanently seeded. No unvegetated areas should be exposed for more than seven days.
7. Place drainage structures. Erosion control measures shall be placed around proposed structures as soon as they are in place and until vegetation is secure.
8. Final grade site. All erosion control blankets shall be installed per manufacturers recommendations as soon as final grading is complete.
9. Final paving operations. Temporary erosion control measures shall remain in place until vegetation is secure.

GENERAL EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH IDEM GENERAL PERMIT RULES FOR STORM WATER RUNOFF FROM CONSTRUCTION SITES

1. All Erosion Control practices shall be in accordance with the latest edition of the INDIANA STORM WATER QUALITY MANUAL.
2. The Erosion Control measures included in this plan shall be installed prior to initial land disturbance activities or as soon as practical. Sediment shall be prevented from discharging from the project site by installing and maintaining silt fence, straw bales, sediment basins, etc. As shown on this plan. If shown on this plan, energy-dissipation devices or Erosion Control at the outfall of the storm sewer system shall be installed at the time of the construction of the outfall.
3. All on-site storm drain inlets shall be protected against sedimentation with silt sack inlet filters, filter fabric, or equivalent barriers as shown on this plan.
4. Except as prevented by inclement weather conditions or other circumstances beyond the control of the contractor/developer appropriate Erosion Control practices will be initiated within (7) seven days of the last land disturbing activity at the site. The site shall be stabilized by seeding, sodding, mulching, covering, or by other equivalent Erosion Control measures.
5. This Erosion Control plan shall be implemented on all disturbed areas within the construction site. All measures involving Erosion Control practices shall be installed under the guidance of a qualified person experienced in Erosion Control and following the plans and specifications included herein.
6. During the period of construction activity, all sediment basins and other Erosion Control measures shall be maintained by the contractor. At the completion of construction, the contractor shall coordinate the transfer of required maintenance responsibilities with the owner.
7. Public or private roadways shall be kept cleared of accumulated sediment. Bulk clearing of accumulated sediment shall not include flushing the area with water. Cleared sediment shall be returned to the point of likely origin or other suitable location.
8. The contractor shall control wastes, garbage, debris, wastewater, and other substances on the site in such a way that they shall not be transported from the site by the action of winds, storm water runoff, or other forces. Proper disposal or management of all wastes and unused building materials appropriate to the nature of the waste or material is required.
9. Additional Erosion Control measures may be required by state or county agencies.

ADDITIONAL MATERIAL HANDLING AND SPILL PREVENTION PLAN

A. PURPOSE

The purpose of this plan is two fold:
1. To help protect the health and safety of those working on the site as well as the environment.
2. Preventing the contamination of storm water runoff. Pollutants generated onsite may include gasoline, diesel fuel, oils, grease, paints, pesticides, nutrients, concrete washout, soil, solvents, paper, plastic, Styrofoam, metals, glass and other forms of liquid or solid wastes.

This plan outlines procedures to help prevent health and safety issues, contamination of storm water by onsite pollutants, help prevent fuel and chemical spills and provide a response procedure should a spill occur.

B. PREVENTION AND READINESS

1. The contractor or responsible party will prepare a contact list in the event of a spill on the site. The contact list will have names and contact numbers. The contact list will specify first responders and a chain of command. Include information on what circumstances require the initiation of the contact list and chain of command.
2. The contractor/owner shall maintain a list of qualified contractors, Vac-trucks, tank pumpers and other equipment or businesses qualified to do clean-up operations. Absorbent materials and supplies need to be available onsite in sufficient quantities to address minor spills. All employees need to be educated on the proper application of the absorbent materials.
3. All maintenance and equipment operators must be aware and trained for prevention of spills. A continuing education program is required for new employees and emphasizing the importance to all employees.
4. All materials used in the course of a cleanup will be disposed in a manor approved by Indiana Department of Environmental Management.
5. Using water to flush spilled material will not be permitted unless authorized by a state, federal, or local agency. Tarps can be used to cover spilled material during rain events.

C. SPILL RESPONSE

Minor - Small spills that typically involve oil gasoline, paint, hydraulic fluid etc. Minor spills can be controlled by the first responder at the discovery of the spill.
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be contained with a dry absorbent. Spills on clayey soils should be contained by constructing an earthen dike and should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if this spill could be a safety issue.
- Contact supervisors and designated inspectors immediately
- Contaminated solids to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals or has the potential for surface or groundwater pollution.
- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazard material spill.
- Contact supervisors and designated inspectors immediately. Other county or municipal officials (list as needed) responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the Department of Environmental Management,
  Office of Emergency Response 1-888-233-7745. The following information should be noted for future reports to IDEM or the National Response Center.
  - o Name, address and phone number of person making the spill report
  - o The location of the spill
  - o The time of the spill
  - o Identification of the spilled substance
  - o Approximate quantity of the substance that has been spilled or may be further spilled
  - o The duration and source of the spill
  - o Name and location of the damaged waters
  - o Name of spill response organization
  - o What measures were taken in the spill response
  - o Other information that may be significant

Additional regulation or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by Emergency Response.

D. THE FOLLOWING PROCEDURES AND PRACTICES WILL HELP PREVENT UNNECESSARY SPILLS

I. Vehicle and Equipment Fueling

Description and Purpose:
- Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

Limitations:
- Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling.

Implementation:
- Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site.
- Discourage "topping-off" of fuel tanks.
- Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use.
- Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.
- Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.
- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas.
- Train employees and subcontractors in proper fueling and cleanup procedures.
- Dedicated fueling areas should be protected from stormwater run-on and runoff, and should be located at least 50 feet away from the downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.
- Protect fueling areas with berms and dikes to prevent run-on, runoff, and to contain spills.
- Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended.
- Federal, state, and local requirements should be observed for any stationary above ground storage tanks.

Inspection and Maintenance
- Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site.
- Keep ample supplies of spill cleanup materials onsite.
- Immediately clean up spills and properly dispose of contaminated soils.

II. Solid Waste Management

Description of Purpose:
- Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

Suitable Applications:
This BMP is suitable for construction sites where the following wastes are generated or stored:

- Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction.
- Packaging materials including wood, paper, and plastic.
- Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces, and masonry products.
- Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes,
- Construction waste including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts. Styrofoam and other materials send transport and package construction materials.

Implementation:
The following steps will help keep a clean site and reduce stormwater pollution:
- Select designated waste collection areas onsite.
- Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use.
- Inspect dumpsters for leaks and repair any dumpster that is not watertight.
- Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.
- Plan for additional containers and more frequent pickup during the demolition phase of construction.
- Collect site trash daily, especially during rainy and windy conditions.
- Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acid, pesticides, additives, curing compounds) are not disposed of in dumpsters designed for construction debris.
- Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.
- Arrange for regular waste collection before containers overflow.
- Clean up immediately if a container does spill.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas. Solid waste storage areas should be located in areas prone to flooding or ponding.
- Locate solid waste dumpster a minimum of 50' away from storm water inlets or other drainage facilities.
- Locate dumpster on stone or earth to minimize the potential for spills or leaks to drain immediately into a drainage facility.

Inspection and Maintenance:
- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.
- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur.
- Inspect construction waste are regularly.
- Arrange for regular waste collection.

III. Concrete Washout

The following steps will help reduce stormwater pollution from concrete wastes:
- Discuss the concrete management techniques described in the BMP (such as handling of concrete waste and washout) with the reddy-mix concrete supplier before any deliveries are made.
- Incorporate requirements for concrete waste management into material supplier and subcontractors' agreements.
- Store dry and wet materials under cover, away from drainage areas.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks offsite or in designed areas only.
- Do not wash concrete trucks into storm drains open ditches, streets, or streams.
- Do no allow excess concrete to be dumped onsite, except in designed areas.

For onsite washout:
- Locate washout areas at least 50 feet from storm drains, open ditches, or water bodies.
- Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.
- Avoid creating runoff by drinking water to a bermed or level area when washing concrete to remove fine particles and expose the aggregate.
- Do not wash sweepings form exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.

IV. Vehicle Maintenance Areas
Purpose- To prevent spills during the normal maintenance of construction machinery.

Implementation- Where and when feasible, maintenance shall be preformed offsite in covered facility with an impervious floor.
- Use a dedicated site for machinery maintenance
- Site the maintenance area at least 50 feet from storm water inlets or water bodies
- Maintain clean up materials close at hand. Utilize drip pans and absorbent pads to prevent oils from reaching the soil surface.
- Inspect equipment daily for leaks or worn hoses. Repair or replace to prevent onsite spills
- Properly dispose of all fluids removed or spilled from machinery.

V. Fluids, paints, solvents and other chemicals storage and use

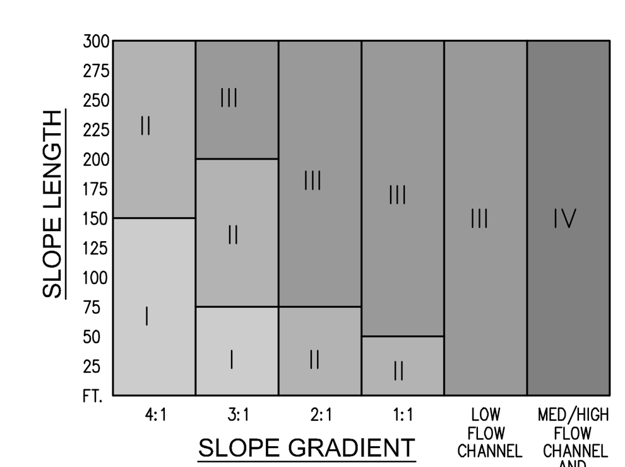
Purpose- To prevent spills during the use and storage of the materials

Implementation-
- Store materials in there original containers
- Maintain safety data sheets on all products
- Store materials in a weather proof/vandal resistant locker or building
- Keep materials away from flammable sources
- Provide and read instructions for the proper use and storage of all materials
- For bulk material stored onsite, provide diking or double containment in case of leaks or failures.
- No washout of solvent from paint supplies should be done near or into a storm water inlet or other drainage facility.

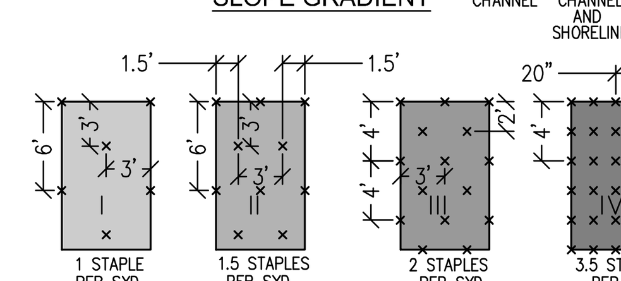
VI. Disposal of sediment laden water

Purpose- To prevent the purposeful discharge of sediment laden water into waters of the United States.

Implementation-
- The sediment and any other pollutant from all pumping or dewatering operations that discharge into storm sewers, wetlands, drainage ways or water bodies must be removed from the water before it's discharged.
- A suitable practice is needed at the discharge to allow the suspended solids to be removed from the water column. Slow moving water and time are needed components for an effective practice. Mechanical filters and chemical flocculants can do an excellent job of removing the fine materials.
- Sediment removal pumping bags may be used at the outlet of a pump. The bags must be sized appropriately for the amount of flow. The practice needs to be installed on erosion resistant surfaces. The outlet of the pumping bag must be erosion resistant to prevent additional sedimentation.
- Pumping operations that are moving clean water through a site are not required to have a pumping bag or similar device at the outlet. The point of discharge should be protected to prevent soil erosion.



SLOPE GRADIENT



EROSION CONTROL BLANKET
STAPLE PATTERN DETAIL

PERMANENT SEED MIXTURES

SPECIES	SEEDING RATE LBS/ACRE	SUITABLE pH	SITE SUITABILITY DROUGHTY	DRAINED	WET
LEVEL AND SLOPING, OPEN AREAS					
TALL FESCUE	35	5.5 - 8.3	2	1	2
TALL FESCUE RED CLOVER **	25 5	5.5 - 8.3		1	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	15 15	5.5 - 7.5	2	1	
STEEP BANKS AND CUTS					
TALL FESCUE KENTUCKY BLUEGRASS	15 25	5.8 - 7.5	2	1	2
TALL FESCUE EMERALD CROWNVETCH **	35 10	5.5 - 8.3	2	1	
LAWNS AND HIGH MAINTENANCE AREAS					
KENTUCKY BLUEGRASS CREEPING RED FESCUE	40 40	5.8 - 7.5	2	1	
PERENNIAL RYEGRASS (TURF TYPE)	170	5.0 - 7.5		1	
TALL FESCUE	170	5.5 - 8.3	2	1	2

1-PREFERRED 2-WILL TOLERATE ** - INOCULATE WITH SPECIFIC INOCULATES

	SOIL CONDITION WET	NORM	DRY	SHADE TOLERANCE	CLOSE MOWING TO 2-3 1/2 INCHES	TRAMPING TOLERANCE	FERTILITY NEEDS	WINTER HARDINESS	FLOODING TOLERANCE (DAYS)	MATURE HEIGHT (INCHES)	EMERGENCE TIME (DAYS)	SALT TOLERANCE GEN.	SOIL	SPRAY
CREEPING RED FESCUE FESTUCA RUBRA	2	1	2	1	1	1	MED.	1	20-25	12-18	7-21			S
KENTUCKY BLUEGRASS POA PROTINSIS	2	1	2	1	1	1	MED.	1	25-35	12-18	10-20			MT
TALL FESCUE FESTUCA L ARUNDINACEA	2	1	1	1	1	1	LOW	1	24-35	24-36	5-14		T	
PERENNIAL RYEGRASS LOLIUM PERENNE	2	1	2	-	1	2	MED-HIGH	2	15-20	12-18	5-10		MT	
CROWNVETCH CORANILLA VARIA	-	1	1	2	-	-	LOW	1	5-10	24	14-21	T		
RED CLOVER TRIFOLIUM PRATENSE	-	1	-	2	-	-	MED.	1	7-10	18	5-10	S	S	

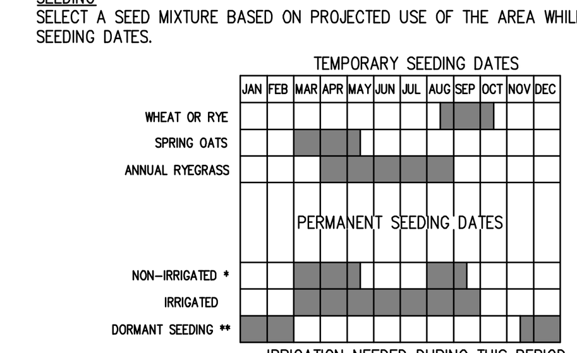
RANKING
1 GOOD
2 MEDIUM
- NOT TOLERANT

SALT TOLERANCE (TO BOTH SOIL SALTS AND SPRAY)
T - TOLERANCE
MT - MEDIUM TOLERANCE
S - SLIGHT TOLERANCE

SEEDBED PREPARATION
APPLY LIME TO RAISE THE pH TO THE LEVEL NEEDED FOR SPECIES BEING SEEDED. APPLY 23 LBS. OF 12-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT) PER 1,000 SQ. FT. (APPROXIMATELY 1,000 LBS. PER ACRE) OR FERTILIZE ACCORDING TO TEST. APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH. WORK THE FERTILIZER AND LIME INTO THE SOIL A DEPTH OF 2 TO 3 INCHES WITH A HARROW, DISK, OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE. FERTILIZER AND LIME SHALL MEET REQUIREMENTS OF INDOT STANDARD SPECIFICATIONS 1995.

SEEDING
SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA WHILE CONSIDERING BEST SEEDING DATES.

TEMPORARY SEEDING DATES



IRRIGATION NEEDED DURING THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS, USE MULCH.

* -LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.

** -INCREASE SEEDING APPLICATION BY 50%.

TEMPORARY SEEDINGS

KIND OF SEED	PER 1,000 SQ. FT.	PER ACRE	REMARKS
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED 1" TO 1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1.0 LBS.	40 LBS.	COVER SEED 1/4" DEEP *

* NOT NECESSARY WHERE MULCH IS APPLIED.

Johnson County, Indiana (IN081)

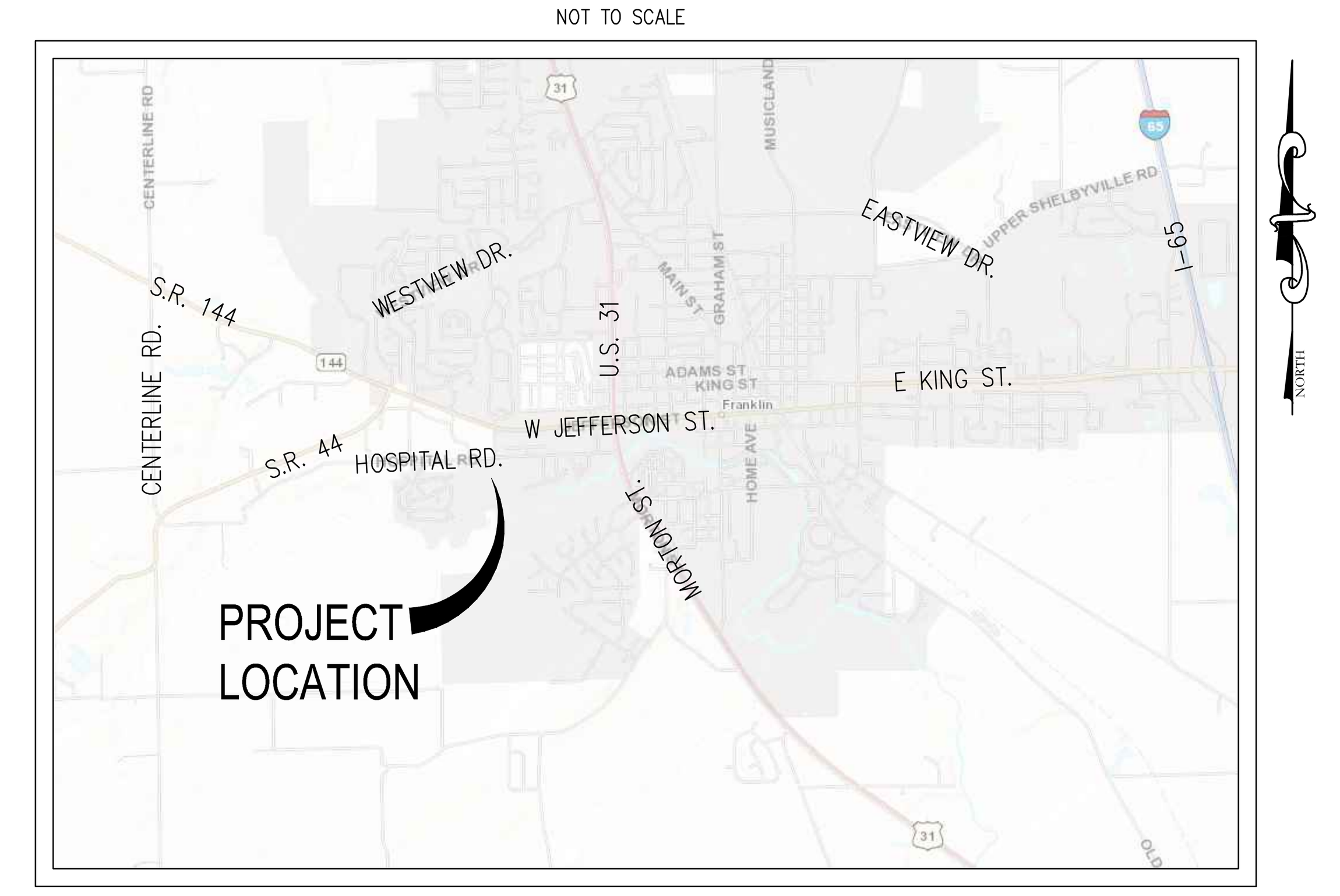
URBAN LAND-CROSBY SILT LOAM COMPLEX (UcfA)
This nearly level mapping unit is on smooth recessionial, gorund, and water-lain moraines . Slopes are 0 to 2 percent. Runoff is generally rapid on the Urban land and slow on the Crosby soils. Wetness and slow permeability the Crosby soils have severe limitations for most non-farm uses.

URBAN LAND-MIAMI COMPLEX SILT LOAM COMPLEX, Eroded (UkbB2)
This moderately sloping mapping unit is along till plain shoulders, backslopes, and footslopes. Slopes are 2 to 6 percent. Runoff is generally rapid on the Urban soils and medium on the Miami soils.

URBAN LAND-MIAMI CLAY LOAM COMPLEX, Severly Eroded (UmcD3)
This heavily sloping mapping unit is along the shoulders and backslopes of moraines and till plains. Slopes are 12 to 18 percent. Runoff is generally rapid on the Urban soils and slow on the Fox soils.

EEL SILT LOAM, URBAN LAND COMPLEX, Frequently Flooded-Brief Duration (YclAH)
This nearly level soil is typically found in flood plains and flood plain treads. Slopes are 0 to 2 percent. Runoff is generally low on soils of this type. Land is moderately well drained but still has a frequent chance flooding.

SOIL MAP AND DESCRIPTION
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

LEGAL DESCRIPTION

DEED BOOK 027, PAGE 245
A PART OF THE NORTH HALF OF THE WEST HALF OF THE NORTHEAST QUARTER OF SECTION 22, TOWNSHIP 12 NORTH, RANGE 4 EAST, CONTAINING 40 ACRES MORE OR LESS;

ALSO A PART OF ALL THAT PART OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 15, TOWNSHIP 12 NORTH, RANGE 4 EAST THAT LIES SOUTH OF THE FRANKLIN & HOPEWELL GRAVEL ROAD, EXCPET A SMALL TRACT IN THE NORTHWEST CORNER THEREOF ON WHICH THE FORMER TOLL HOUSE WAS AND IS LOCATED, CONTAINING IN ALL 60 ACRES; EXCEPTING THEREFROM 30 ACRES BY PARALLEL LINES OFF OF THE EAST SIDE, ENTIRE LENGTH THEREOF.

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE OR COUNTY OFFICIALS

INDIANA 811 Know what's below. Call before you dig

ELEVATUS ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 ElevatusArchitecture.com

SEAL
BRADY THOMAS VAUGHAN
REGISTERED
No. 12400527
STATE OF INDIANA
PROFESSIONAL ENGINEER

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

Johnson County Court Services
1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN DEP | CHECKED GJI
DESIGNED BRV | APPR. GJI

REVISIONS

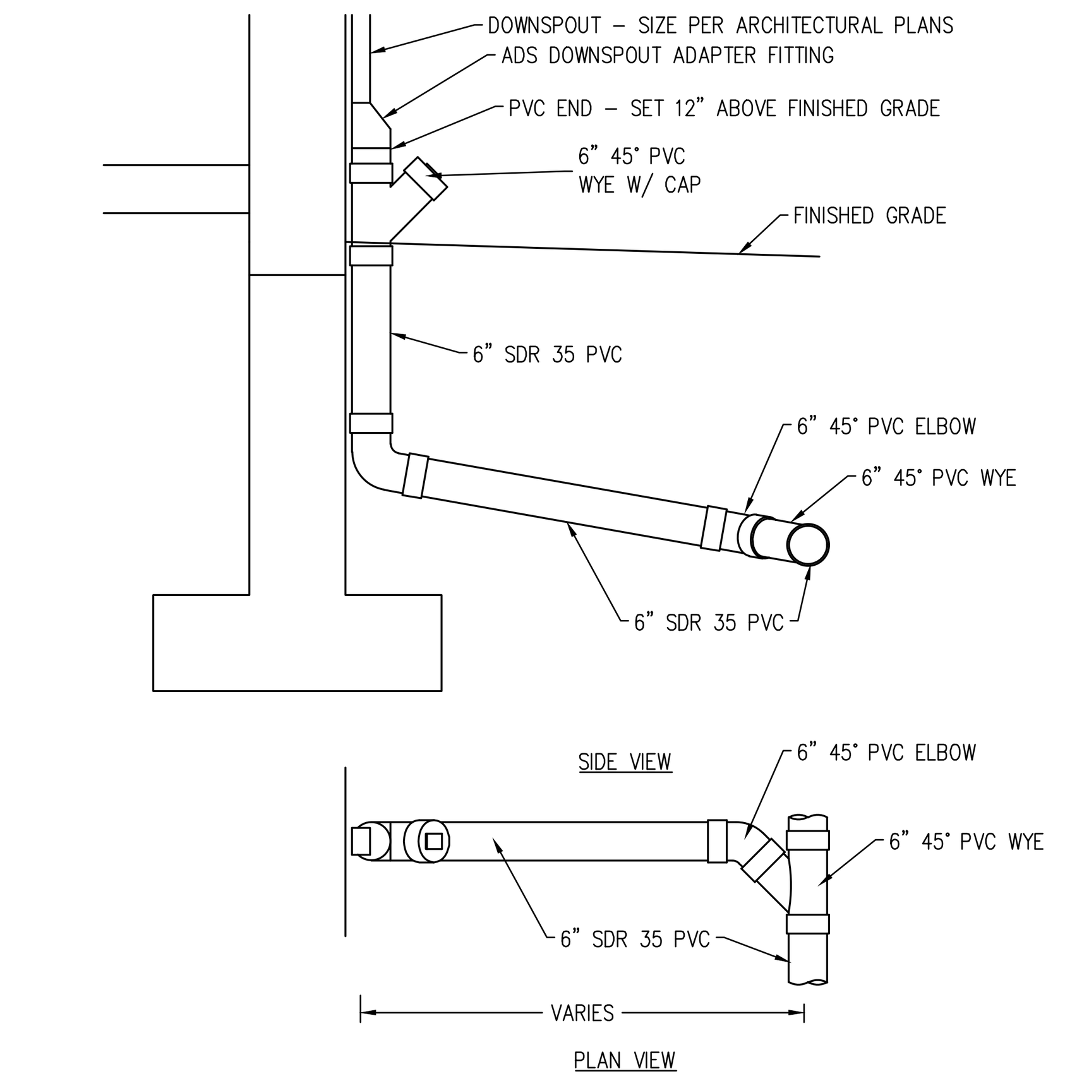
NO.	DESCRIPTION	DATE

PROJECT NO. 2301301
ISSUE DATE 8-30-2024
SUBMITTAL 100% Construction Document Set

SWPPP

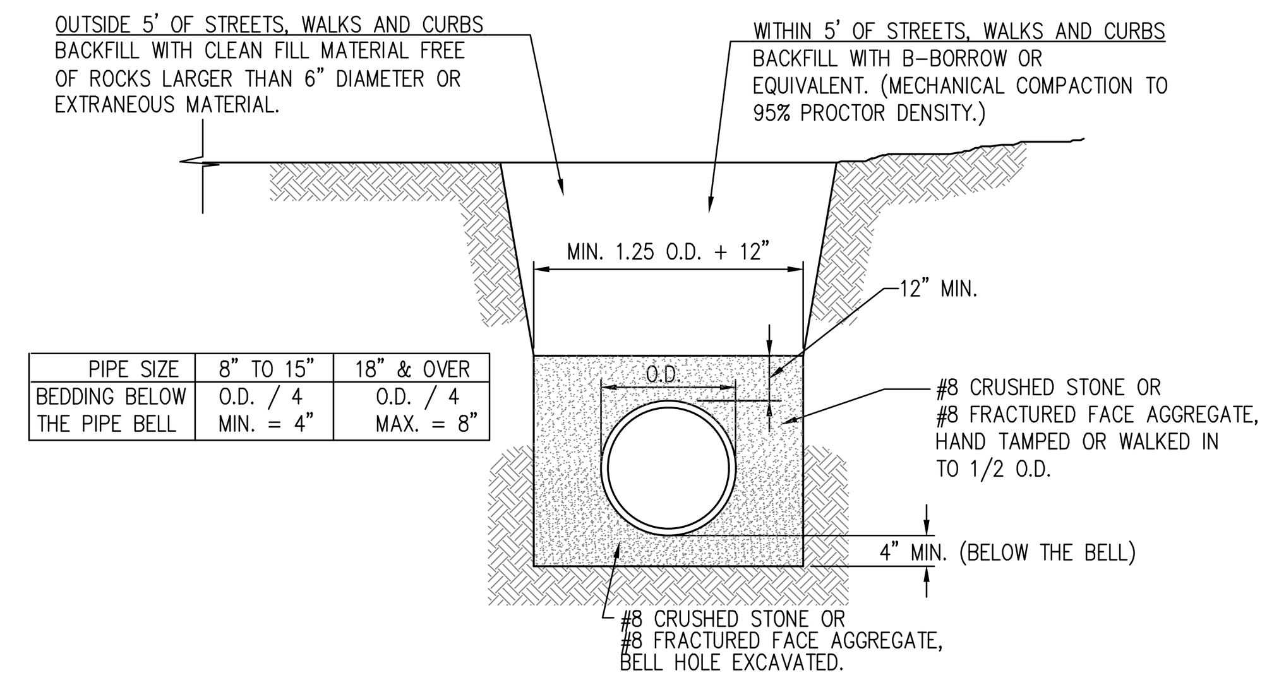
C-803

DIRECTORY PATH : R:\Active\Elevatus Architecture\JoCo Probation & Corrections\Design\CAD\Plans
FILENAME : C-803 SWPPP.dwg
DATE/USER : 8/30/2024 10:36 AM / Dpeloso


DOWNSPOUT - SIZE PER ARCHITECTURAL PLANS
ADS DOWNSPOUT ADAPTER FITTING
PVC END - SET 12" ABOVE FINISHED GRADE
6" 45° PVC WYE W/ CAP
FINISHED GRADE
6" SDR 35 PVC
6" 45° PVC ELBOW
6" 45° PVC WYE
6" SDR 35 PVC
SIDE VIEW
6" 45° PVC ELBOW
6" 45° PVC WYE
6" SDR 35 PVC
VARIES
PLAN VIEW

DOWNSPOUT CONNECTION & HEADER PIPE DETAIL

NOT TO SCALE

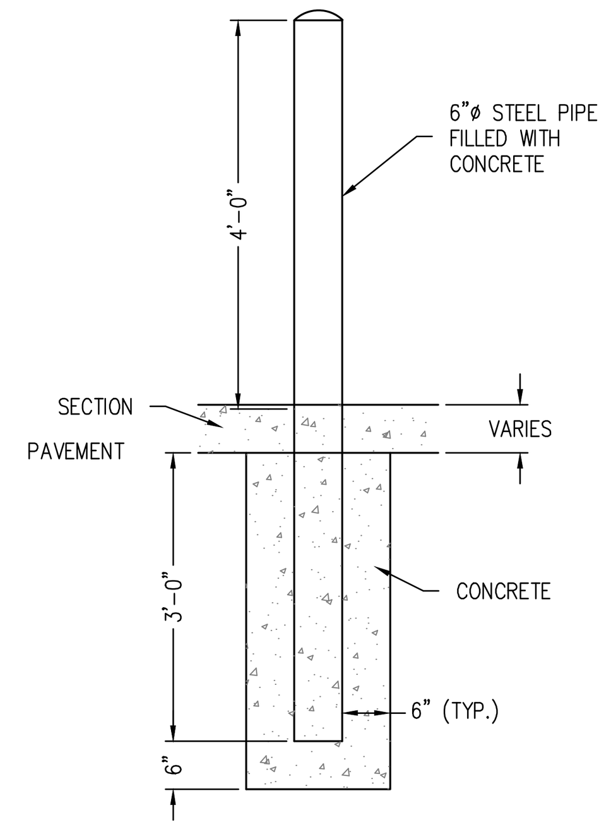

OUTSIDE 5' OF STREETS, WALKS AND CURBS BACKFILL WITH CLEAN FILL MATERIAL FREE OF ROCKS LARGER THAN 6" DIAMETER OR EXTRANEOUS MATERIAL.
WITHIN 5' OF STREETS, WALKS AND CURBS BACKFILL WITH B-BORROW OR EQUIVALENT. (MECHANICAL COMPACTION TO 95% PROCTOR DENSITY.)
MIN. 1.25 O.D. + 12"
12" MIN.
O.D.
#8 CRUSHED STONE OR #8 FRACTURED FACE AGGREGATE, HAND TAMPED OR WALKED IN TO 1/2 O.D.
4" MIN. (BELOW THE BELL)
#8 CRUSHED STONE OR #8 FRACTURED FACE AGGREGATE, BELL HOLE EXCAVATED.

PIPE SIZE	8" TO 15"	18" & OVER
BEDDING BELOW THE PIPE BELL	O.D. / 4 MIN. = 4"	O.D. / 4 MAX. = 8"

FLEXIBLE PIPE BEDDING DETAIL

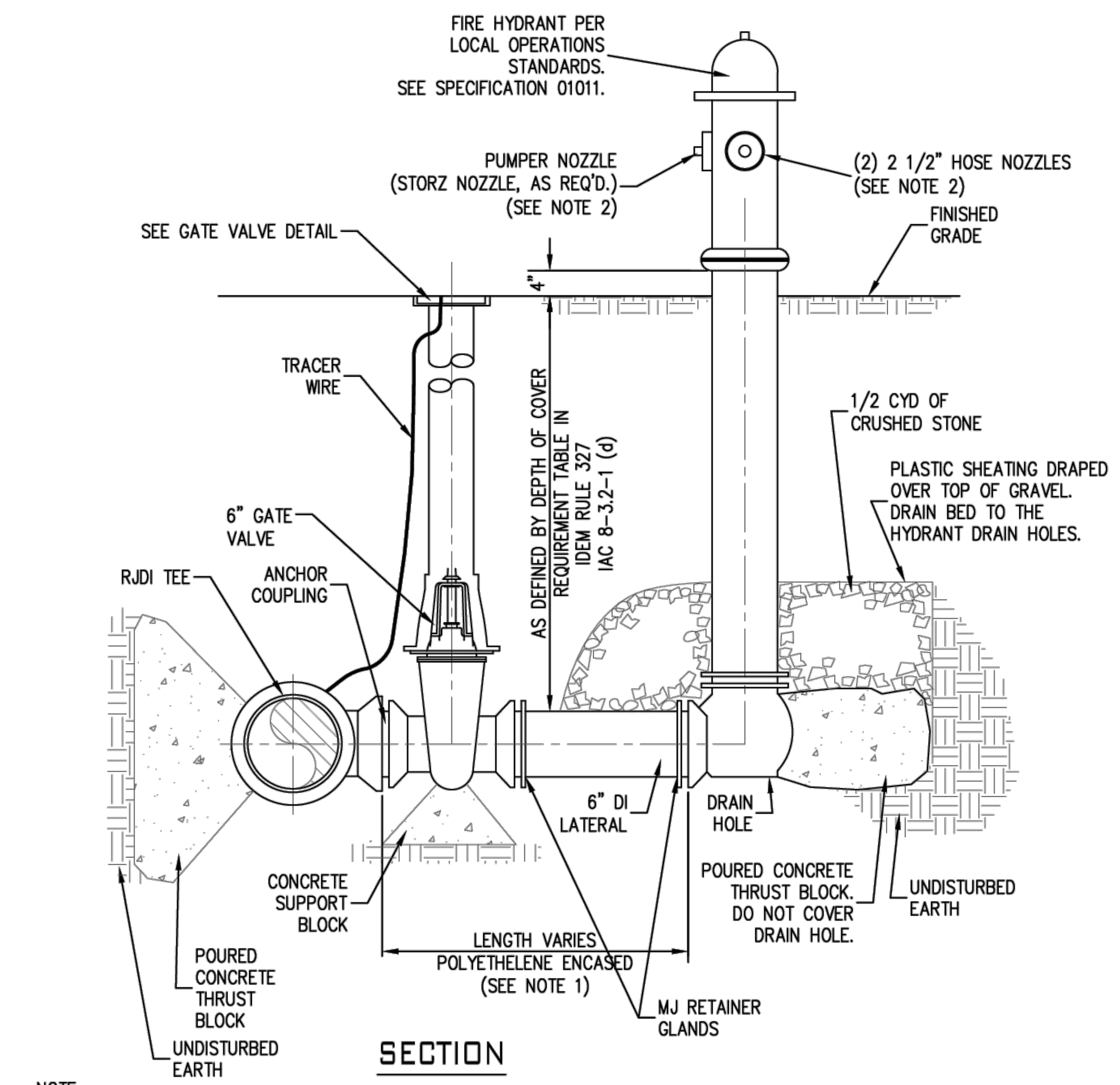
PVC AND HDPE PIPE

NOT TO SCALE



PIPE BOLLARD DETAIL

NOT TO SCALE


FIRE HYDRANT PER LOCAL OPERATIONS STANDARDS. SEE SPECIFICATION 01011.
PUMPER NOZZLE (STORZ NOZZLE, AS REQ'D.) (SEE NOTE 2)
(2) 2 1/2" HOSE NOZZLES (SEE NOTE 2)
FINISHED GRADE
SEE GATE VALVE DETAIL
TRACER WIRE
AS DEFINED BY DEPTH OF COVER REQUIREMENT TABLE IN IDEM RULE 327 IAC 8-3.2-1 (d)
1/2 CYD OF CRUSHED STONE
PLASTIC SHEATING DRAPED OVER TOP OF GRAVEL. DRAIN BED TO THE HYDRANT DRAIN HOLES.
6" GATE VALVE
ANCHOR COUPLING
RJDI TEE
6" DI LATERAL
DRAIN HOLE
POURED CONCRETE THRUST BLOCK. DO NOT COVER DRAIN HOLE.
UNDISTURBED EARTH
CONCRETE SUPPORT BLOCK
LENGTH VARIES POLYETHELENE ENCASED (SEE NOTE 1)
POURED CONCRETE THRUST BLOCK
UNDISTURBED EARTH
MJ RETAINER GLANDS

SECTION

NOTE:

1. THE FIRE HYDRANT LATERAL, GATE VALVE, AND FIRE HYDRANT BARREL SHALL BE ENCASED IN POLYETHYLENE ENCASEMENT UP TO FINISHED GRADE PER SPECIFICATION 15130 PRIOR TO BACKFILL. THE POLYETHYLENE ENCASEMENT SHALL NOT INTERFERE WITH THE DRAIN HOLE.
2. WHEN INSTALLED BEHIND CURB, PUMPER AND HOSE NOZZLES TO BE AT LEAST 18"-24", DEPENDING ON LOCAL REQUIREMENTS, FROM FACE OF CURB.

FIRE HYDRANT DETAILS

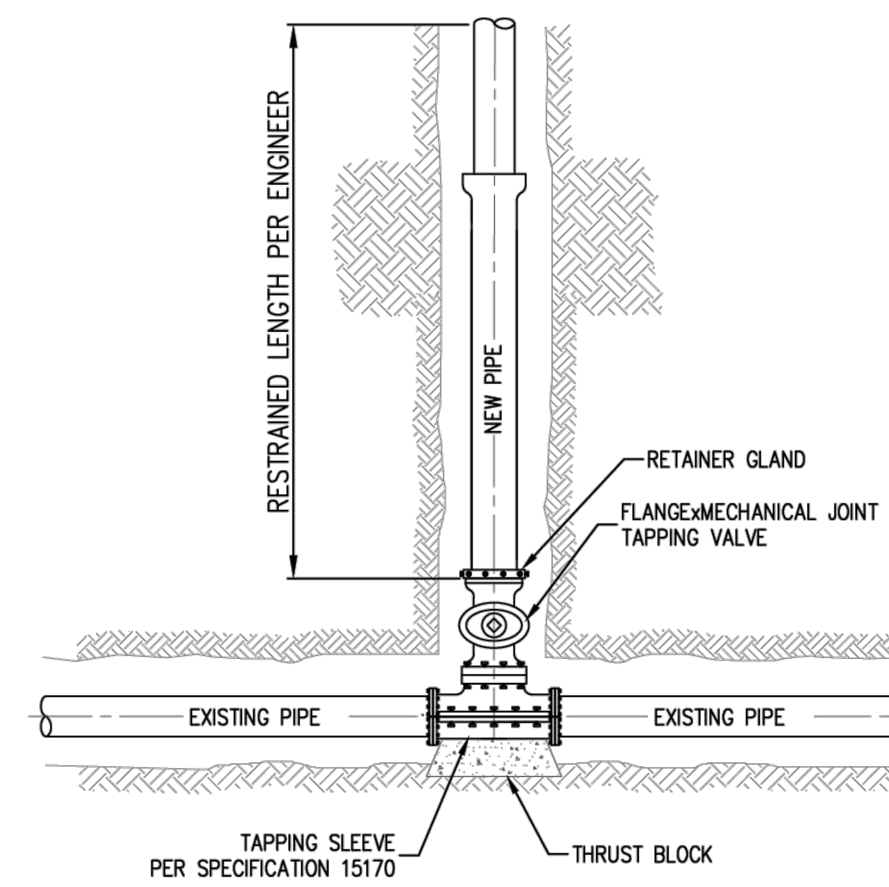
N.T.S.

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

STANDARD DETAIL

FIRE HYDRANT DETAIL

DATE: JANUARY, 2018	DRAWN BY: S. FORD
LATEST REV: JULY, 2018	APP'D BY: E.N.



NOTE:

1. RETAINER GLAND PER SPECIFICATION 15130.
2. TAPPING SLEEVE FOR HDPE PIPE MUST BE APPROVED FOR THE APPLICATION BY THE MANUFACTURER AND INAWC.

TAPPING SLEEVE AND TAPPING VALVE DETAIL

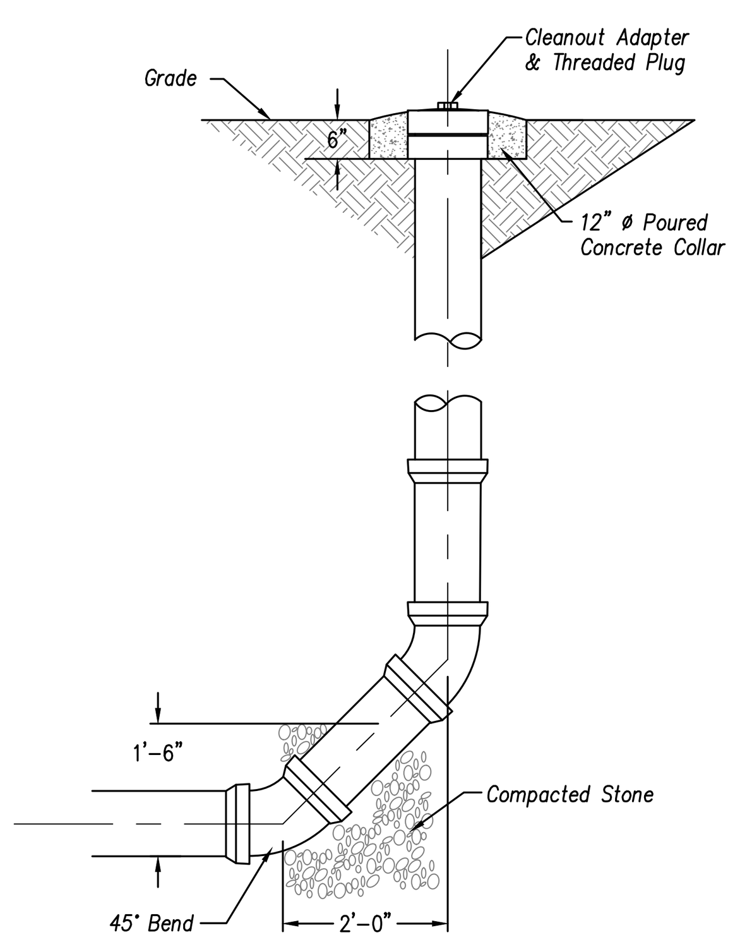
N.T.S.

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

STANDARD DETAIL

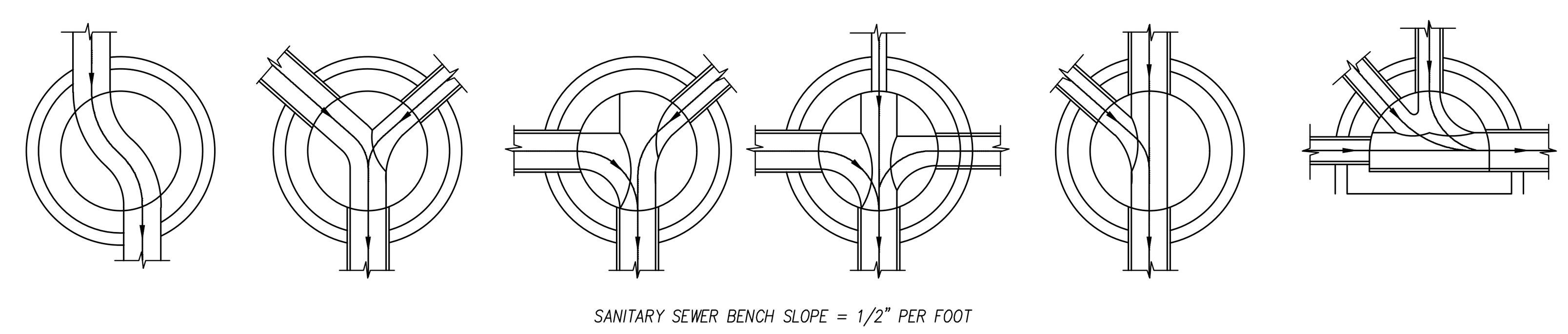
TAPPING SLEEVE AND TAPPING VALVE

DATE: JANUARY, 2018	DRAWN BY: S. FORD
LATEST REV: JANUARY, 2018	APP'D BY: E.N.



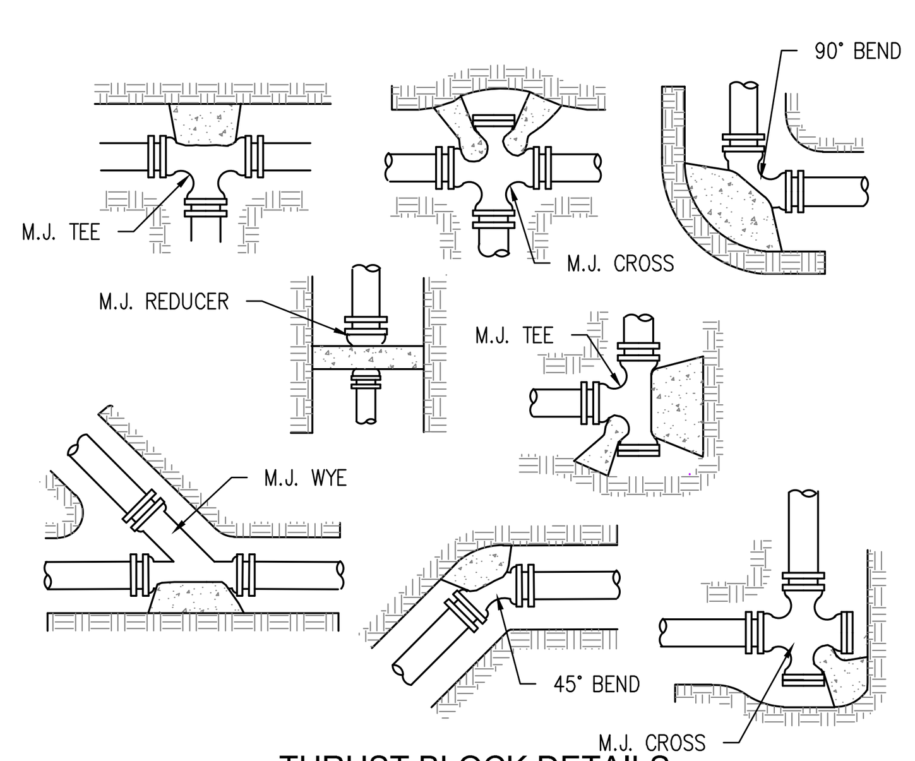
STANDARD CLEANOUT DETAIL

NOT TO SCALE



STANDARD MANHOLE BENCHES

NOT TO SCALE



THRUST BLOCK DETAILS

NOT TO SCALE

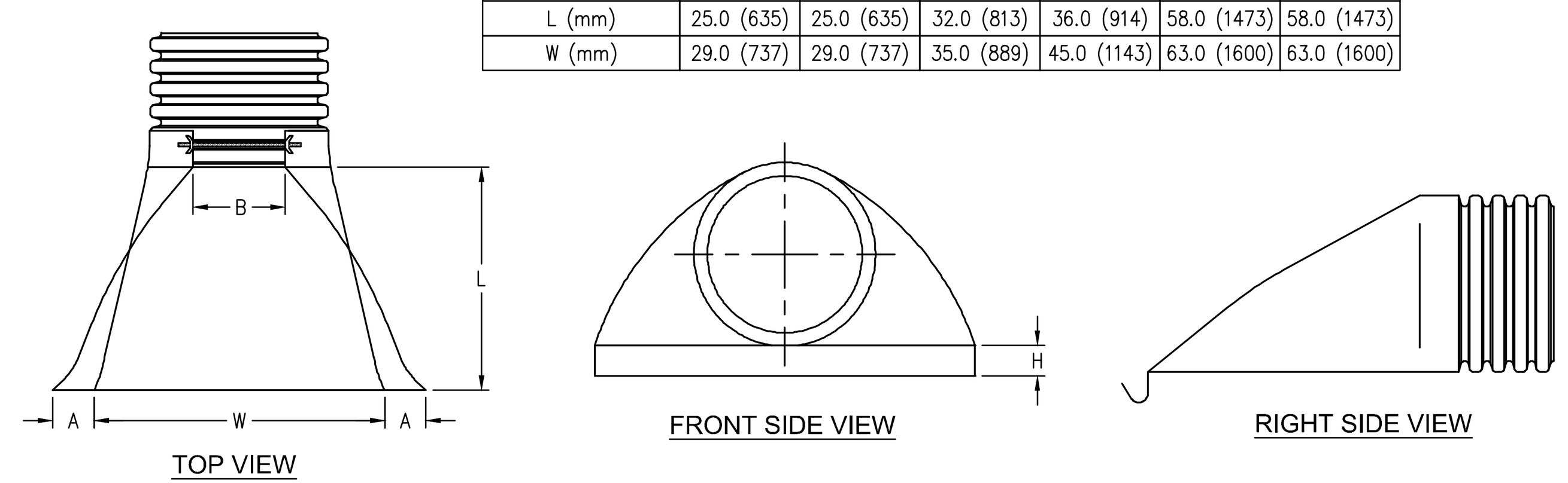
PIPE SIZE	ELBOWS 90°	45°	22½°	11¼°	TEE	VALVES & HYDRANT	REDUCER
16"	37.8	19.1	11.2	3.0	28.6	21.4	16 X 14 3.6
14"	29.8	14.9	8.9	2.3	23.2	16.4	14 X 12 3.1
12"	21.1	8.6	6.6	1.7	16.6	10.5	12 X 10 2.6
10"	11.5	5.9	3.6	1.2	9.4	7.8	10 X 8 2.1
8"	7.2	3.7	2.1	1.2	5.4	4.6	8 X 6 1.6
6"	3.2	3.0	1.3	1.2	3.5	2.6	6 X 4 1.6
4" & UNDER	1.3	3.0	1.3	1.2	3.5	1.3	4 X 3 1.6

THRUST BLOCK SCHEDULE

NOTE: CLASS 150 PIPE, TEST PRESSURE P.S.I.; SOIL BEARING: 2000 P.S.I. THRUST BLOCK CONTACT AREA OF UNDISTURBED EARTH BANK IN SQUARE FEET.

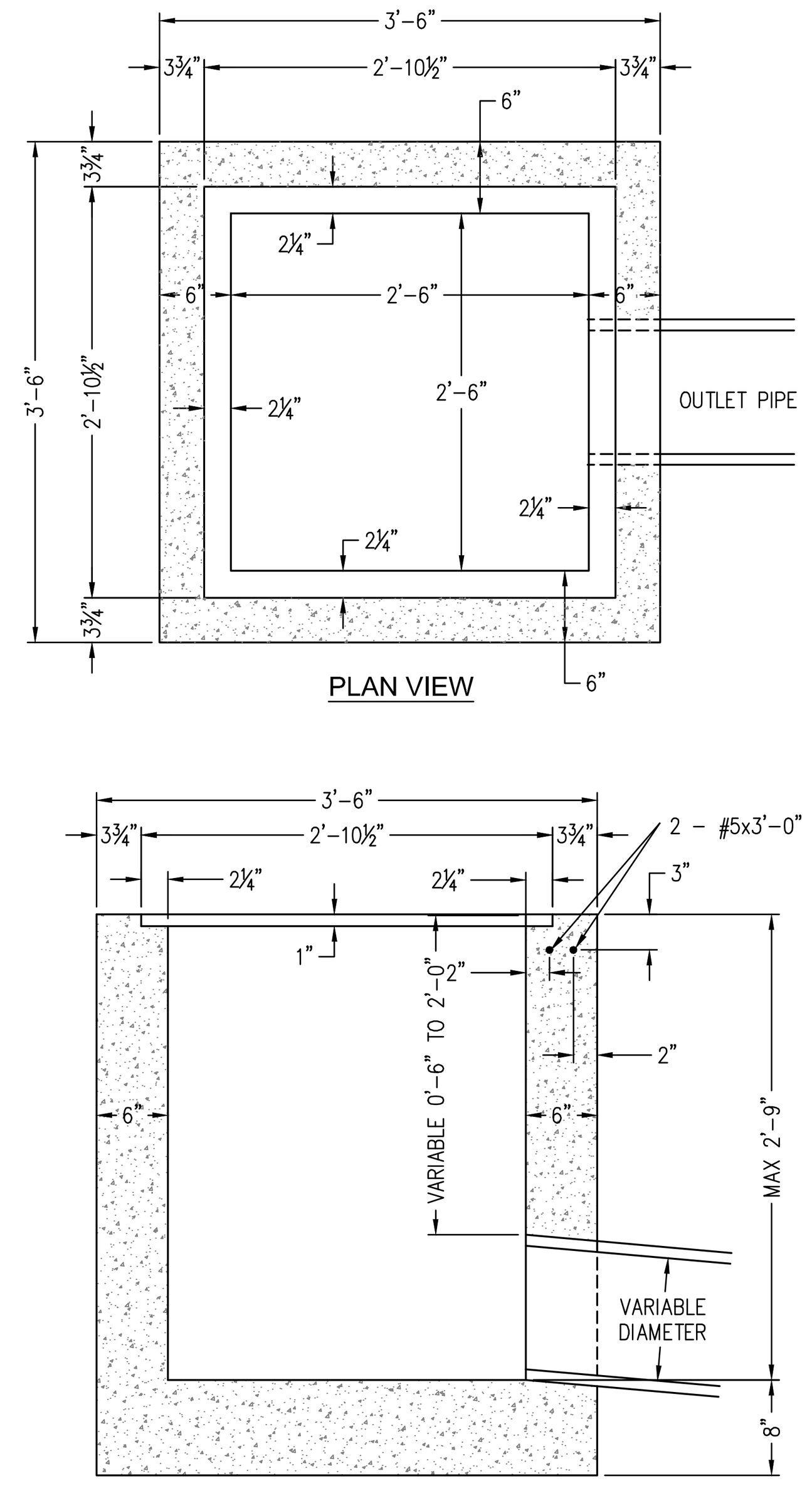
CONCRETE THRUST BLOCKS TO BE 2500 P.S.I. CONCRETE, POURED IN PLACE WITH SLUMP BETWEEN 1" MINIMUM AND 4" MAXIMUM

PIPE DIAMETER, in (mm)						
Diameter (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
A (mm)	6.5 (165)	6.5 (165)	7.5 (191)	7.5 (191)	7.5 (191)	7.5 (191)
B (mm)	10.0 (254)	10.0 (254)	15.0 (381)	18.0 (475)	22.0 (559)	25.0 (635)
H (mm)	6.5 (165)	6.5 (165)	6.5 (165)	6.5 (165)	8.6 (218)	8.6 (218)
L (mm)	25.0 (635)	25.0 (635)	32.0 (813)	36.0 (914)	58.0 (1473)	58.0 (1473)
W (mm)	29.0 (737)	29.0 (737)	35.0 (889)	45.0 (1143)	63.0 (1600)	63.0 (1600)



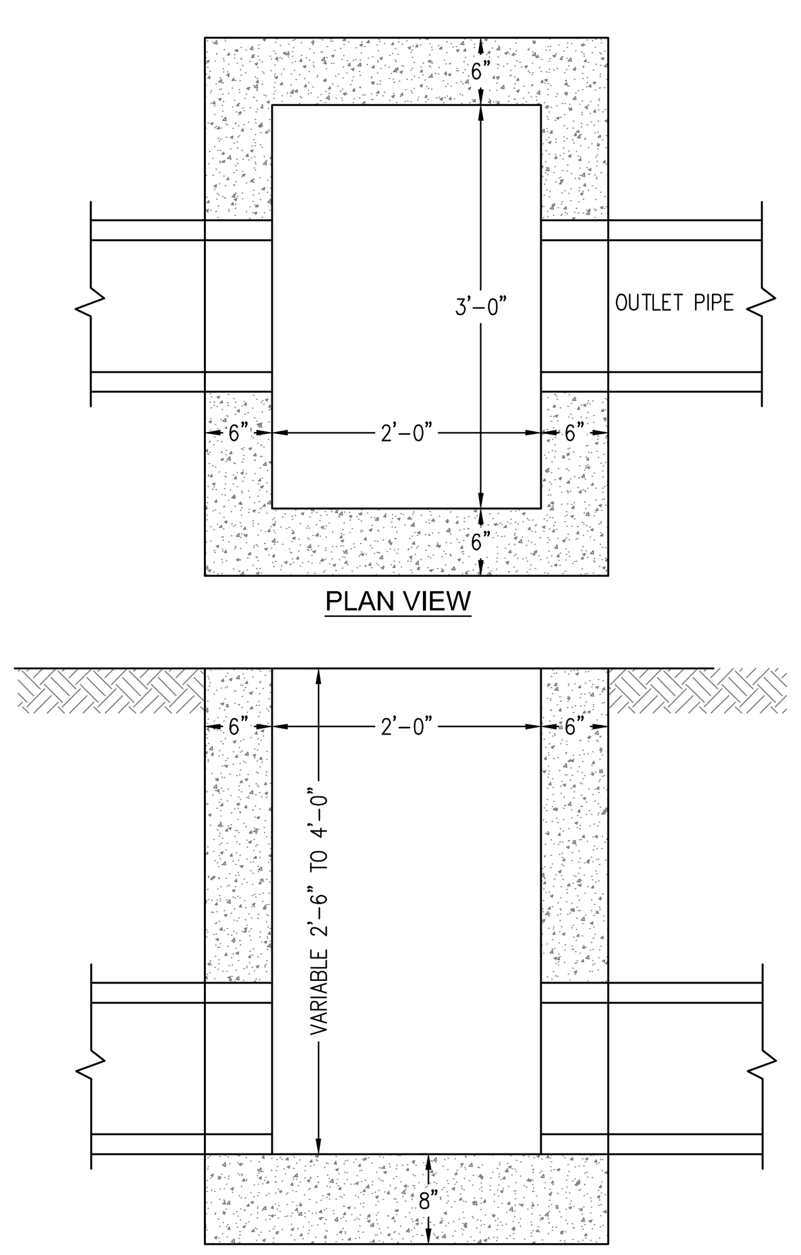
HDPE PIPE END SECTION

NOT TO SCALE



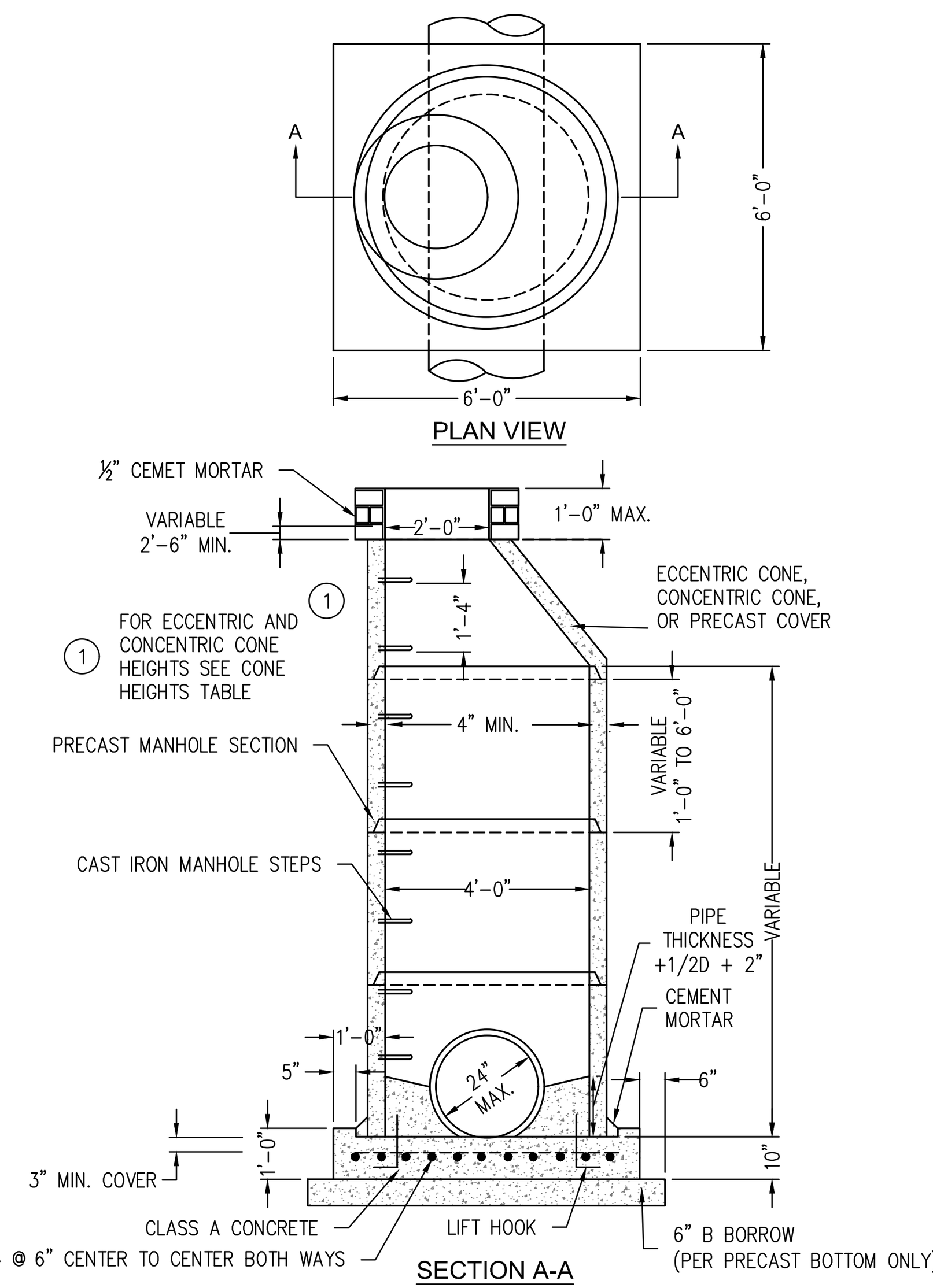
INLET TYPE 'E'

NOT TO SCALE



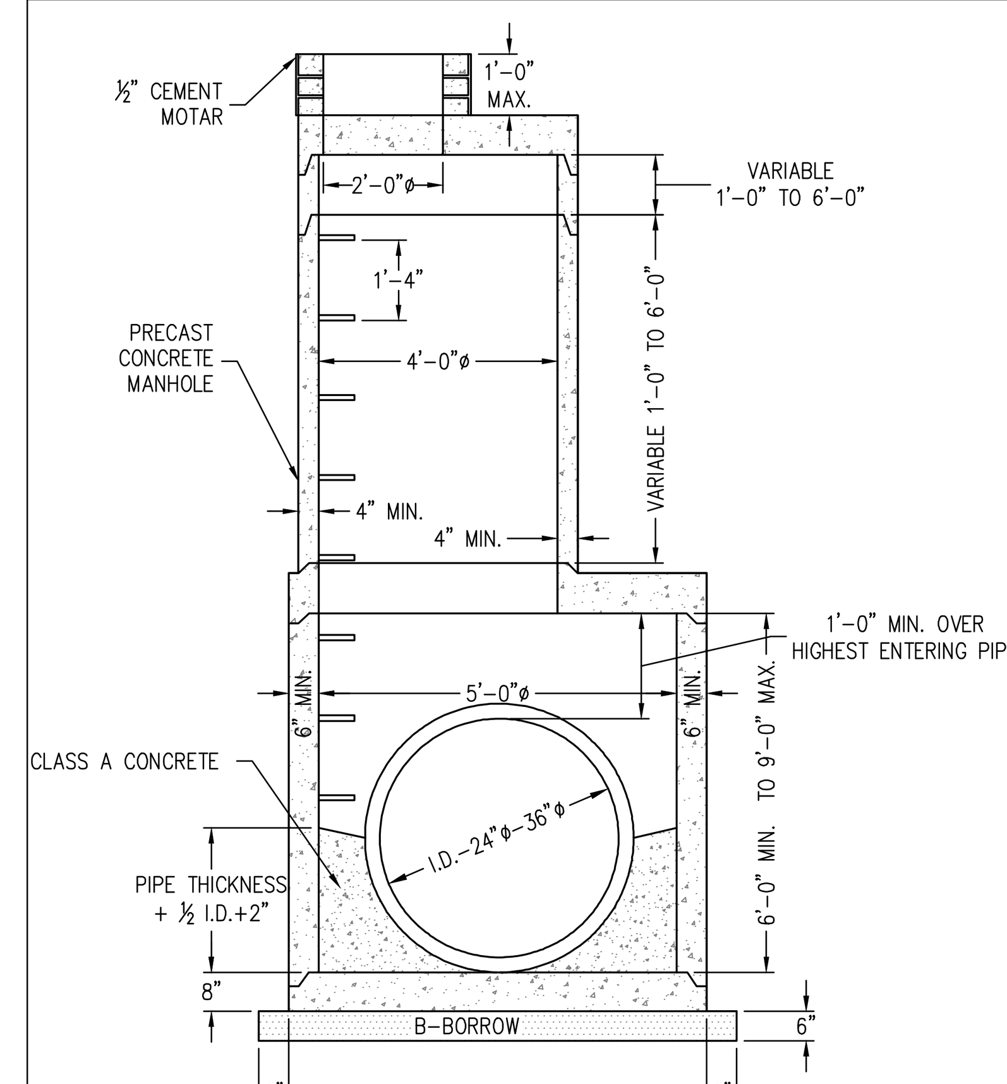
INLET TYPE 'J' & 'M'

NOT TO SCALE


A
A
6'-0"
6'-0"
PLAN VIEW
½" CEMET MORTAR
VARIABLE 2'-6" MIN.
2'-0"
1'-0" MAX.
ECCENTRIC CONE, CONCENTRIC CONE, OR PRECAST COVER
FOR ECCENTRIC AND CONCENTRIC CONE HEIGHTS SEE CONE HEIGHTS TABLE
PRECAST MANHOLE SECTION
4" MIN.
VARIABLE 1'-0" TO 6'-0"
CAST IRON MANHOLE STEPS
4'-0"
PIPE THICKNESS +1/2D + 2"
CEMENT MORTAR
24" MAX.
6"
3" MIN. COVER
CLASS A CONCRETE
LIFT HOOK
6" B BORROW (PER PRECAST BOTTOM ONLY)
#4 @ 6" CENTER TO CENTER BOTH WAYS
SECTION A-A

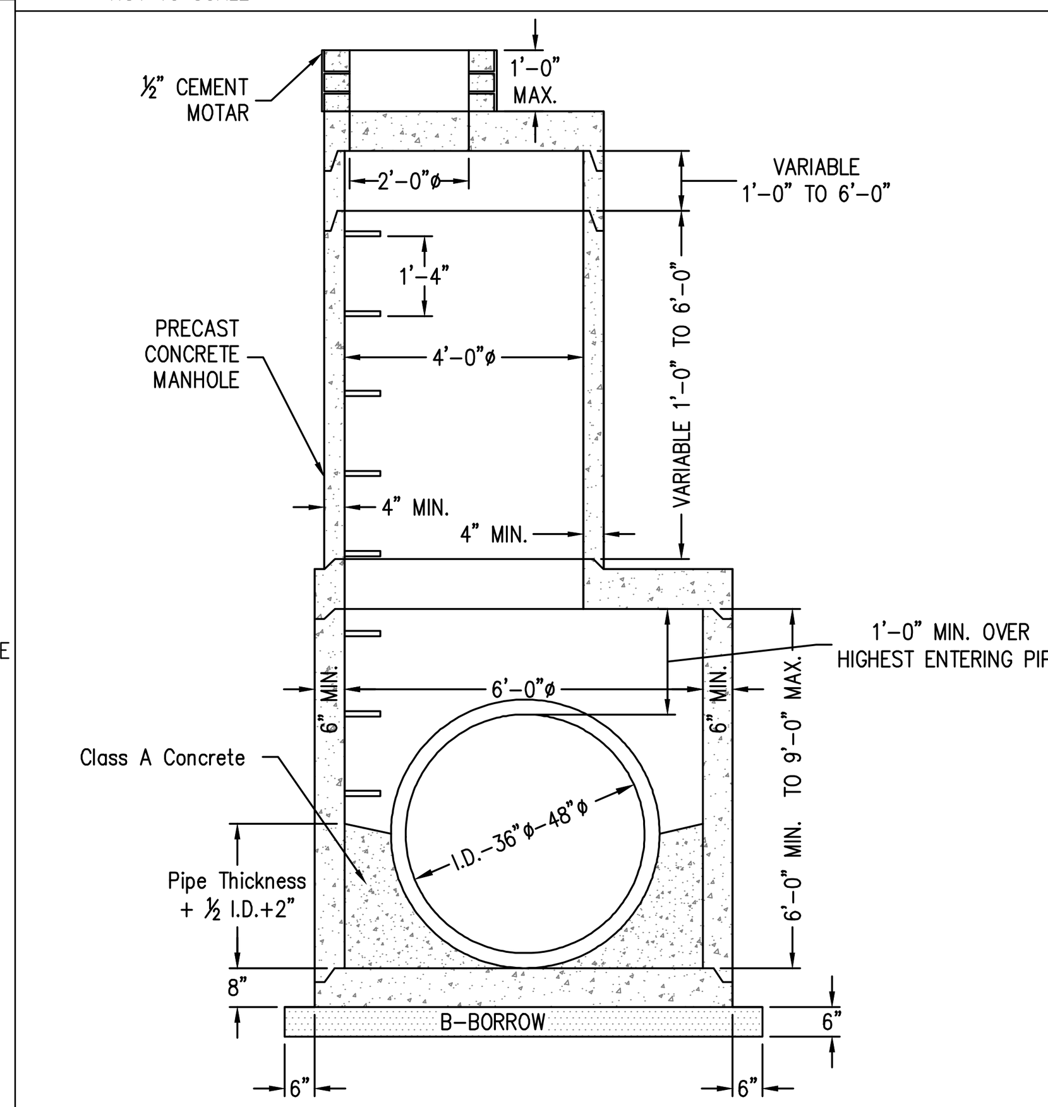
STORM MANHOLE TYPE 'C'

NOT TO SCALE



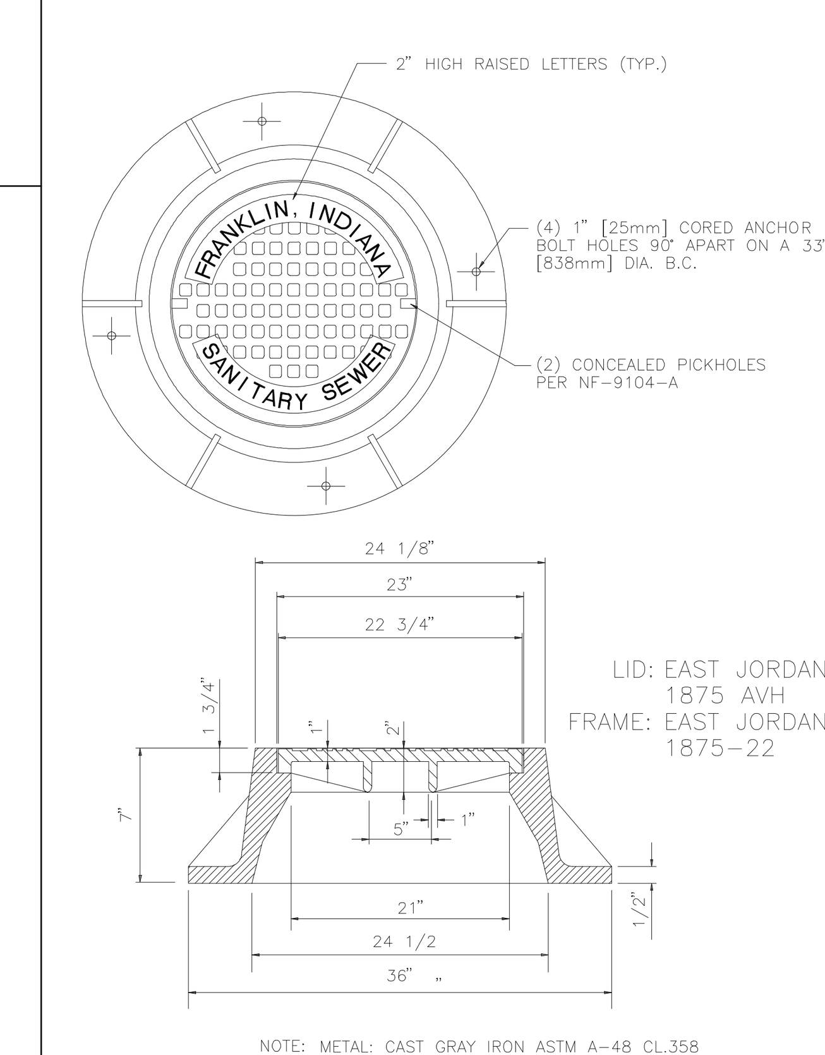
STORM MANHOLE TYPE 'J'

NOT TO SCALE



STORM MANHOLE TYPE 'K'

NOT TO SCALE


2" HIGH RAISED LETTERS (TYP.)
FRANKLIN, INDIANA
SANITARY SEWER
(4) 1" [25mm] CORED ANCHOR BOLT HOLES 90° APART ON A 33" [838mm] DIA. B.C.
(2) CONCEALED PICKHOLES PER NF-9704-A
24 1/8"
23"
22 3/4"
LID: EAST JORDAN 1875 AVH
FRAME: EAST JORDAN 1875-Z2
21"
24 1/2"
36"
NOTE: METAL: CAST GRAY IRON ASTM A-48 CL.35B FINISH: NOT PAINTED

STANDARD SANITARY MANHOLE FRAME & LID

NOT TO SCALE

ELEVATUS ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 ElevatusArchitecture.com

SEAL

BRADY THOMAS VAUGHAN
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STATE OF INDIANA
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CROSSROAD ENGINEERS, PC
Transportation & Development Consultants

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1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN	DEP	CHECKED	GJ
DESIGNED	BRV	APPR.	GJ

REVISIONS

NO.	DESCRIPTION	DATE

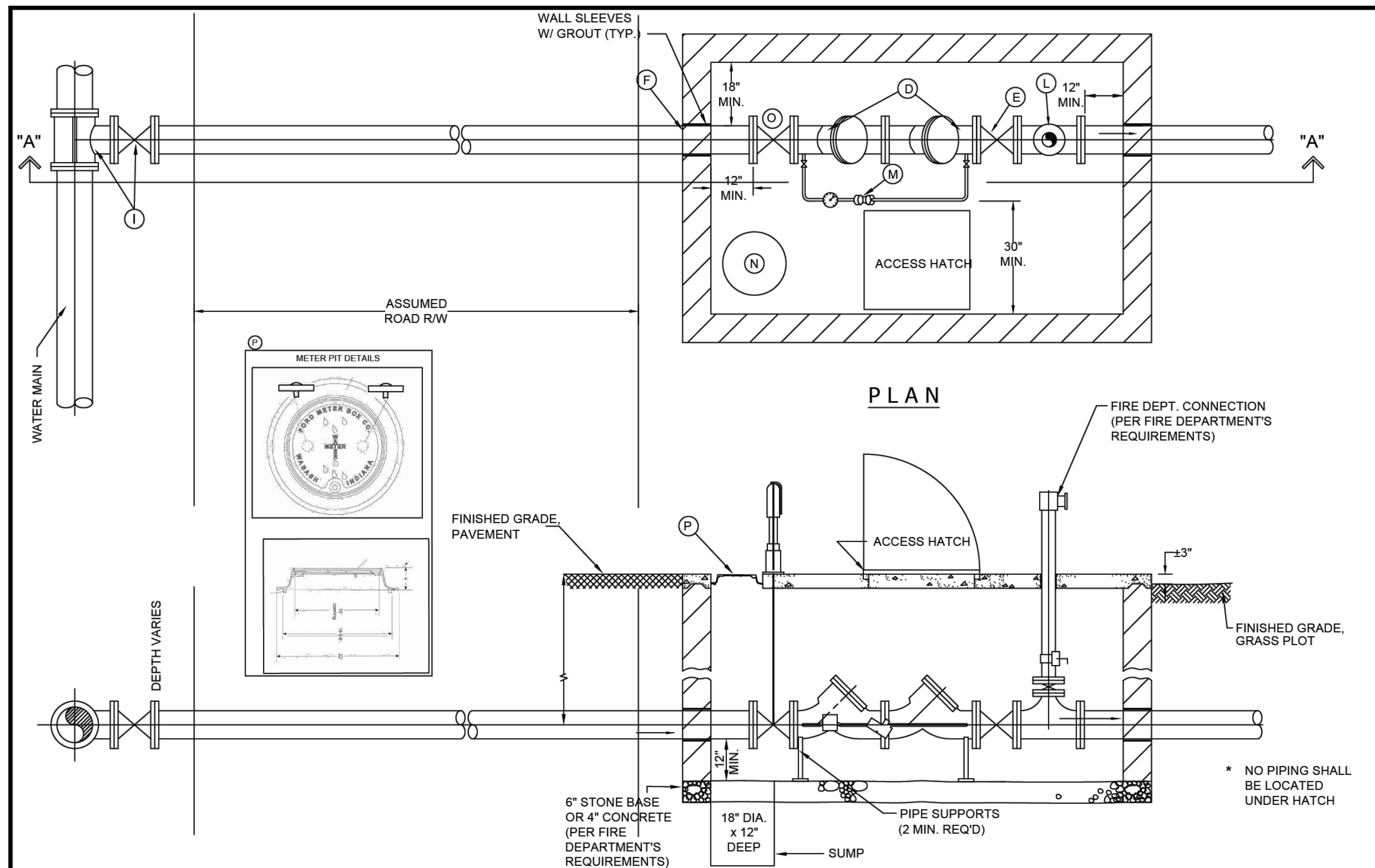
PROJECT NO.	ISSUE DATE
2301301	8-30-2024

SUBMITTAL
100% Construction Document Set

MISCELANEOUS DETAILS

C-900

DIRECTORY PATH : R:\Active\Elevatus Architecture\JoCo Probation & Corrections\Design\CAD\Plans
FILENAME : C-900 Miscellaneous Details.dwg
DATE/USER : 8/30/2024 10:36 AM / Dpelosio



NOTES:

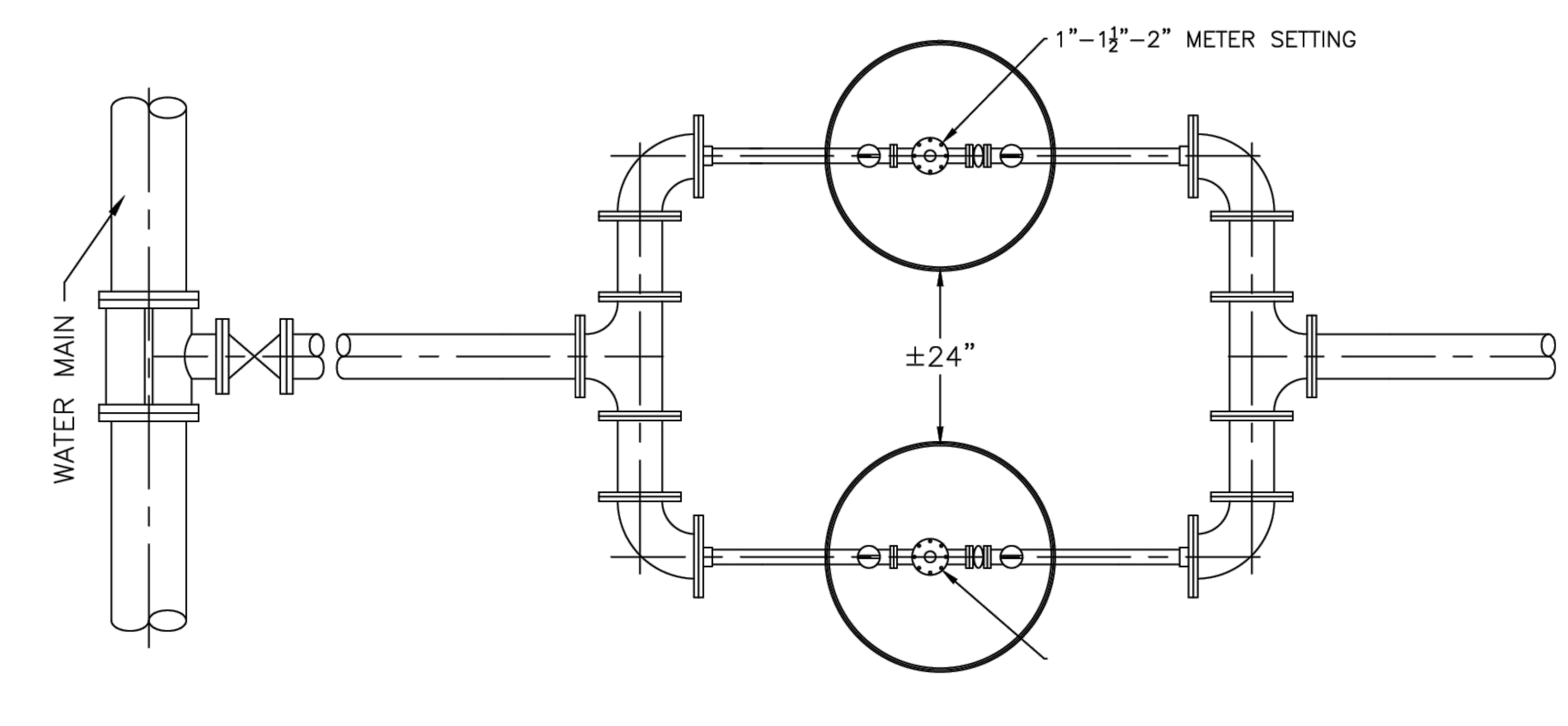
1. CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPERTENCES EXCEPT AS NOTED BELOW.
2. VAULT CONSTRUCTION MATERIALS SHALL BE 8"x8"x16" CMU, OR PRECAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION.
3. INSIDE DIMENSIONS PER DRAWING NOTES. VAULT TO BE SET LENGTHWISE WITH SERVICE.
4. TOP OF VAULT TO BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT IS TO BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED IN GRASS PLOT, TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
5. BOTTOM OF VAULT TO BE EITHER A MINIMUM OF 6" OF CRUSHED STONE OR 4" CONCRETE PER FIRE DEPARTMENT'S REQUIREMENT. MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
6. DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&Y GATE VALVE ON INLET & OUTLET SIDES. DETECTOR METER IS FURNISHED BY UTILITY AND INSTALLED BY CUSTOMER. STAINLESS STEEL BOLTS ARE REQUIRED.
7. ACCESS HATCH IN TOP OF VAULT SHALL BE 30"x30" ALUMINUM BILCO J-2AL, BILCO PCM-2, HALLIDAY W1S3030 OR EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE. IF THE LOCAL FIRE DEPARTMENT REQUIRES A SUMP PUMP IN THE VAULT, ELECTRICAL DISCONNECT IS REQUIRED ON TOP OF VAULT, INSTALLED ABOVE GRADE, PER LOCAL ELECTRICAL CODE.
8. A SEPARATE METER PIT/VAULT WILL BE USED FOR DOMESTIC METERS. DISTRICT TO PROVIDE PIT/VAULT DETAILS.
   a. CUSTOMER SHALL FURNISH BALL VALVES ON BOTH SIDES OF THE DOMESTIC METER SETTING.
   b. A 2" TEST PLUG SHALL BE INSTALLED AT LEAST 2 PIPE DIAMETERS DOWNSTREAM OF 2" OR LARGER METERS.
   c. DETECTOR METER TO BE LOCATED A MAXIMUM 18" FROM HINGE SIDE OF HATCH.
9. AS DIRECTED BY LOCAL OPERATIONS, ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED.
10. THE LID AND RING THAT WILL BE REQUIRED IS FORD A53-TT OR FORD A53-T. THE A53-TT WILL BE USED FOR ALL VAULTS WITH THE DOMESTIC METER INSIDE. THE A53-T WITH BE USED FOR ALL VAULTS WITH THE DCDA ONLY LOCATED INSIDE THE VAULT.

LEGEND

- (A) NOT USED
- (B) NOT USED
- (C) NOT USED
- (D) DOUBLE CHECK DETECTOR ASSEMBLY
- (E) FLANGED OS & Y VALVE
- (F) FIRE LINE
- (G) NOT USED
- (H) NOT USED
- (I) TAPPING SLEEVE W/ TAPPING VALVE & BOX (COORDINATE WITH LOCAL UTILITY SUPERINTENDENT/MANAGER)
- (J) NOT USED
- (K) NOT USED
- (L) FLANGED TEE
- (M) DETECTOR METER
- (N) SUMP PIT
- (O) FLANGED OS&Y VALVE WITH PIT TYPE POST INDICATOR
- (P) SUMP PUMP LID

INDIANA AMERICAN WATER

SCALE: NO SCALE	LONG SIDE VAULT DETAIL
REVISIONS	STANDARD FIRE SERVICE VAULT
DRAWN BY: R.K.B. / DATE: 2/2017 / CHECKED: AC	1 of 1
AUTOCAD FILE: FS-VAULT-LONG SHORT SIDE.DWG / APPROVED:	



PLAN VIEW SINGLE TAP

NOTES:

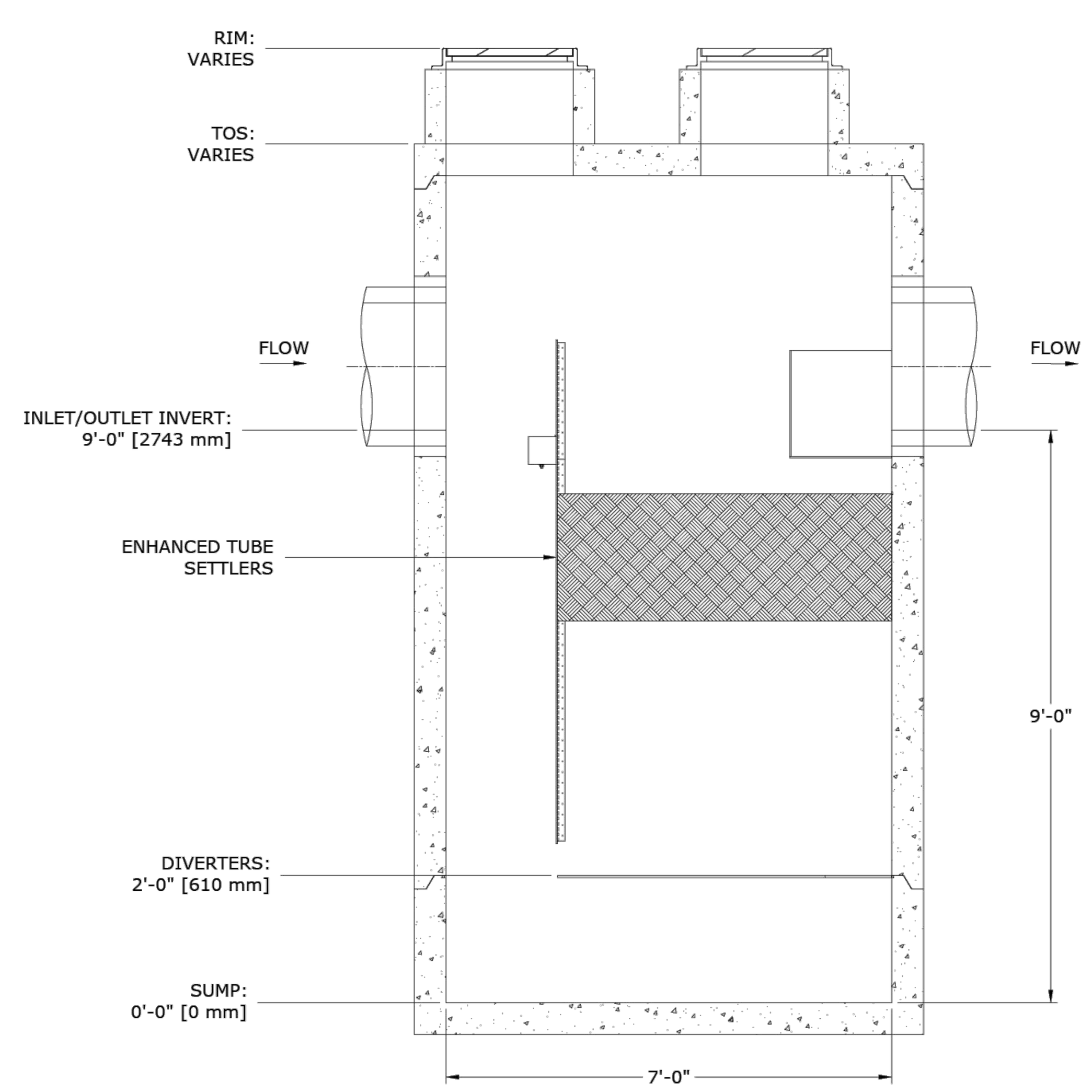
METER PIT DETAIL PER DISTRICT.

SERVICE MAY REQUIRE APPROVED BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH 327 IAC 8-10.

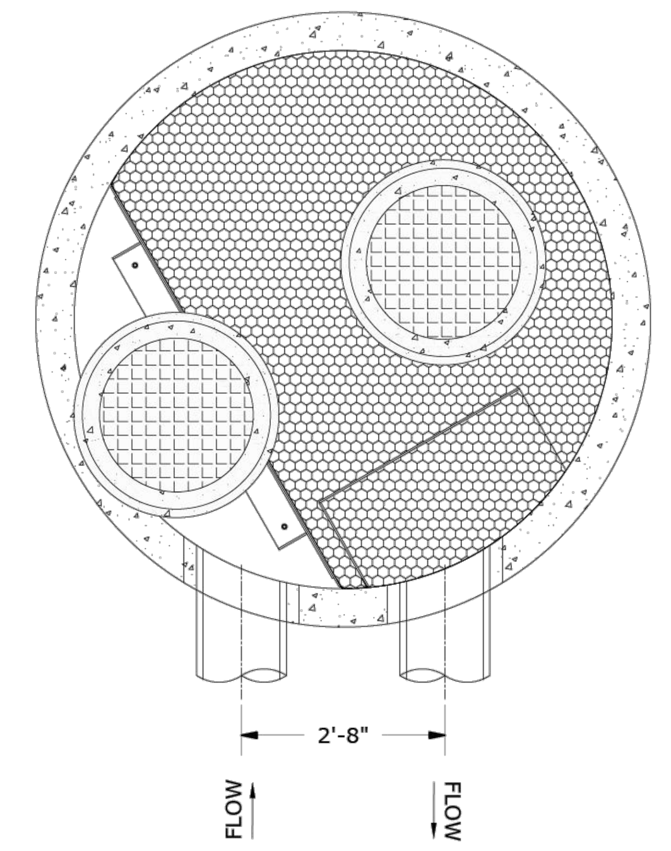
INDIANA AMERICAN WATER

SCALE: NOT TO SCALE	INDIANA
REVISIONS	TYPICAL DUAL 2" METER PITS DETAIL
DRAWN BY: R.K.B. / DATE: 10/2016 / CHECKED:	SHEET 1 of 1
AUTOCAD FILE: Dual 2 Meter Pits.dwg / APPROVED:	

SITE SPECIFIC DATA			
STRUCTURE ID			WQU
WATER QUALITY FLOW RATE (CFS)			-
PEAK FLOW RATE (CFS)			-
SEDIMENT STORAGE CAPACITY (CF)			44.9
RIM ELEVATION			-
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	-	HDPE	12"
OUTLET PIPE	-	HDPE	12"



ELEVATION VIEW
N.T.S.



PLAN VIEW
N.T.S.

DESIGN NOTES:

1. DESIGN LOADING
   a. LOAD RATING: AASHTO HS-20
   b. ALLOWABLE COVER: 0.50' [152 mm] TO 5.00' [1524 mm]. CONTACT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
   c. WATER TABLE AT OR BELOW OUTLET PIPE INVERT ELEVATION.
   d. NO LATERAL SURCHARGE FROM ADJACENT STRUCTURES SUCH AS VEGETATION, BUILDINGS, WALLS, OR FOUNDATIONS.
2. ENGINEER OF RECORD TO CONFIRM THE DESIGN LOADINGS MEET PROJECT REQUIREMENTS. CONTACT STORMTRAP FOR ALTERNATIVE DESIGN LOAD OPTIONS.

GENERAL NOTES:

1. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS, WEIGHTS, AND ACCESSORIES, PLEASE CONTACT YOUR STORMTRAP REPRESENTATIVE.
2. CONCRETE COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C478.
3. CONTRACTOR TO INSTALL THE STRUCTURE IN ACCORDANCE WITH ASTM C1821.
4. CONTRACTOR TO PROVIDE ALL LABOR AND EQUIPMENT REQUIRED TO OFFLOAD AND INSTALL UNIT.
5. CONTRACTOR TO PROVIDE AND INSTALL ALL PIPES, FRAMES, COVERS, HATCHES, AND RISERS UNLESS SPECIFIED OTHERWISE.
6. CONTRACTOR TO ADD JOINT SEALANT (PROVIDED BY STORMTRAP) BETWEEN ALL STRUCTURE SECTIONS.

DRAWINGS ARE FOR REFERENCE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

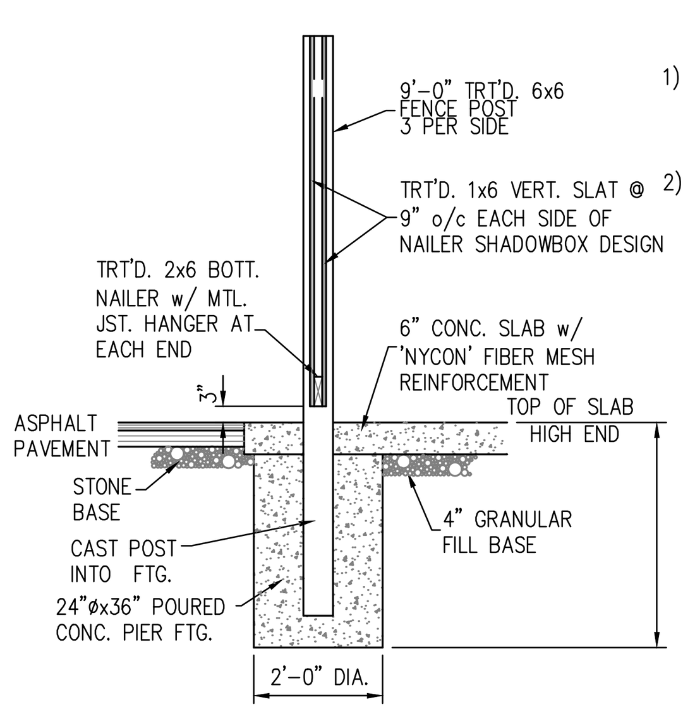
StormSettler™ StormTrap®

STORMSETTLER 7 STANDARD DETAIL HORSESHOE CONFIGURATION

PATENTS LISTED AT: [HTTP://STORMTRAP.COM/PATENT]

1287 WINDHAM PARKWAY ROMEOVILLE, IL 60446 P:815-941-4549 F:331-318-5347

DRAWN BY:	DATE:	SCALE:		
CWN	TBD	N.T.S.	V1	SHEET 1 OF 1

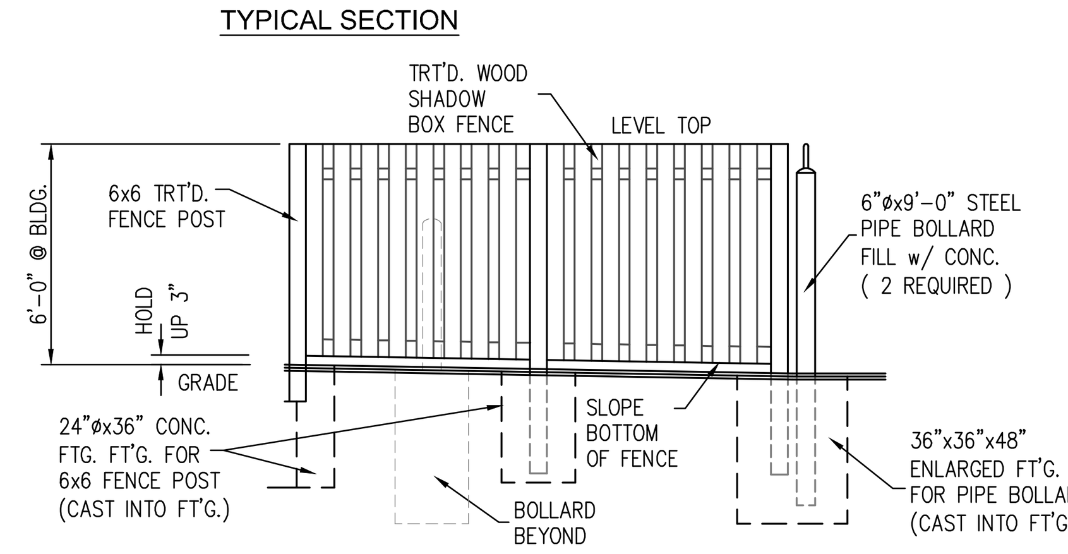


TYPICAL SECTION

NOTES:

1) TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT SPACING AS INDICATED OR DIRECTED.

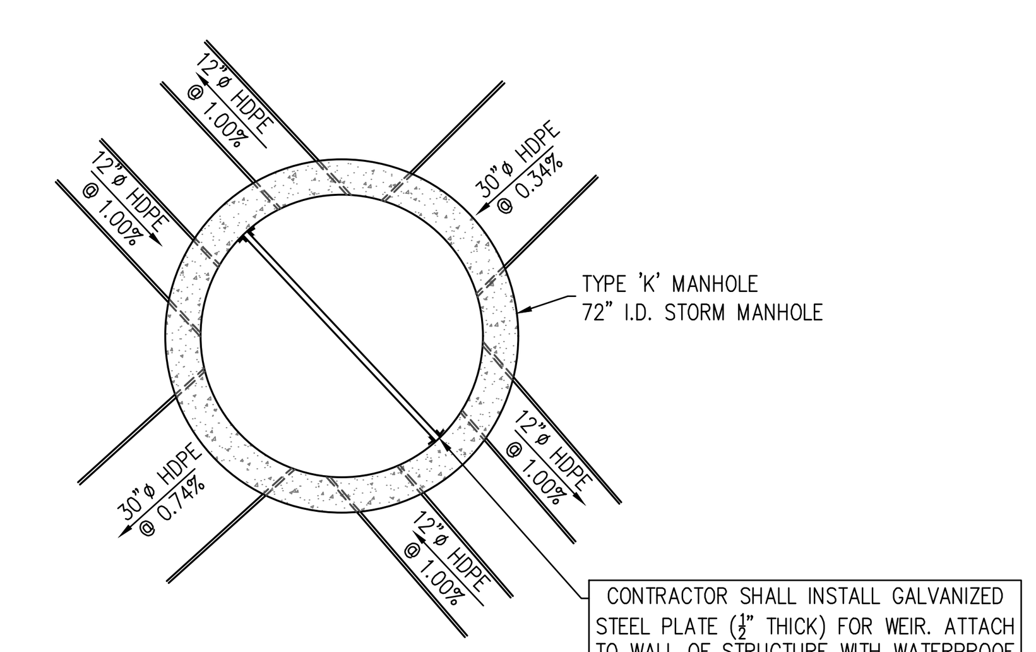
2) WHERE SIDEWALK IS NOT CONSTRUCTED ADJACENT TO THE CURB, THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4"



TYPICAL SIDE ELEVATION

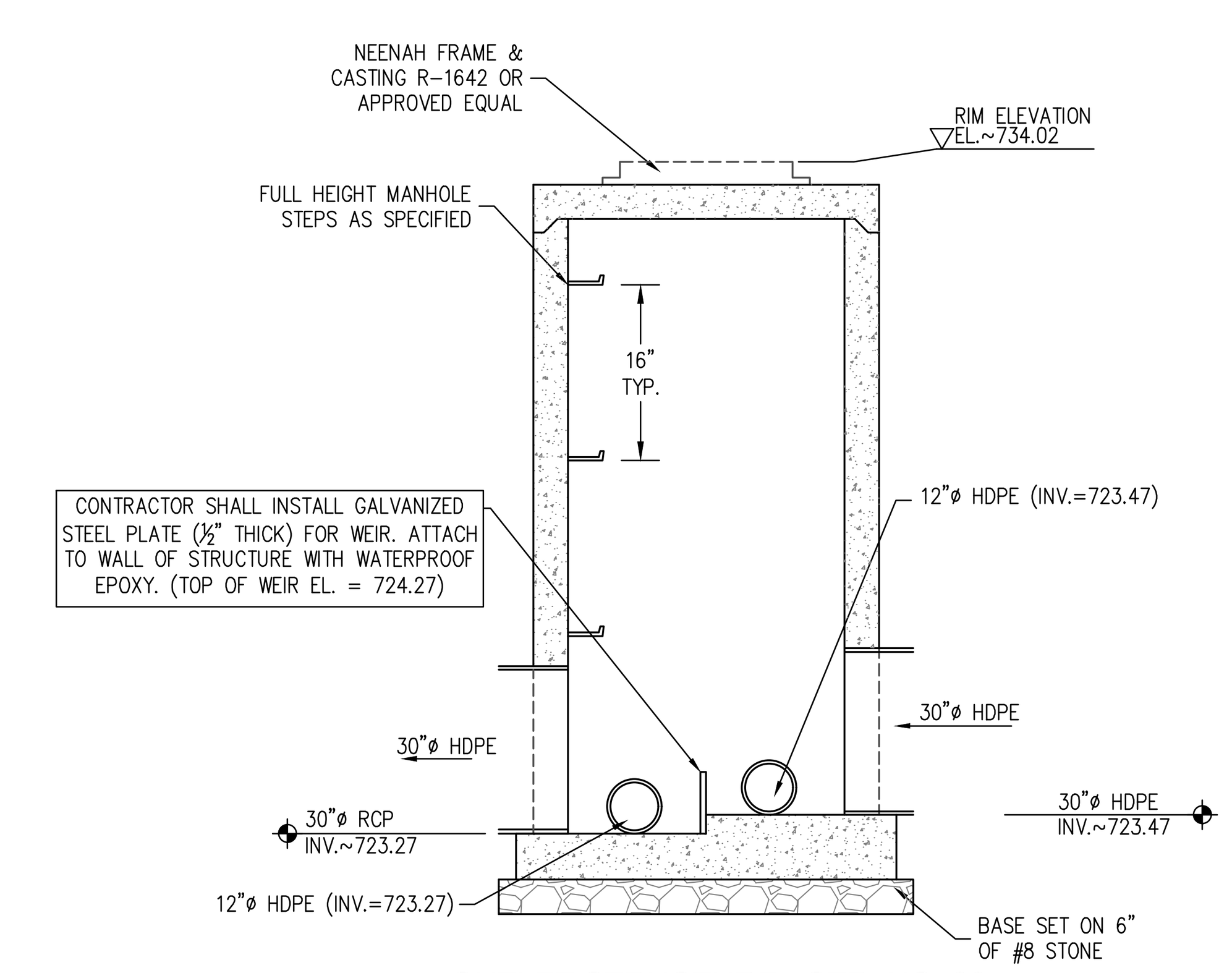
CEDAR SHADOW BOX FENCE TRASH ENCLOSURE (H)

NOT TO SCALE



CONTRACTOR SHALL INSTALL GALVANIZED STEEL PLATE (¼" THICK) FOR WEIR. ATTACH TO WALL OF STRUCTURE WITH WATERPROOF EPOXY. (TOP OF WEIR EL. = 724.27)

PLAN VIEW



OUTLET STRUCTURE - STR. NO. 26

ELEVATUS ARCHITECTURE

111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 ElevatusArchitecture.com

SEAL

BRADY THOMAS VAUGHAN REGISTERED No. 12400527 STATE OF INDIANA PROFESSIONAL ENGINEER

CROSSROAD ENGINEERS, PC Transportation & Development Consultants

Johnson County Court Services

1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN	DEP	CHECKED	GJI
DESIGNED	BRV	APPR.	GJI

REVISIONS

NO.	DESCRIPTION	DATE

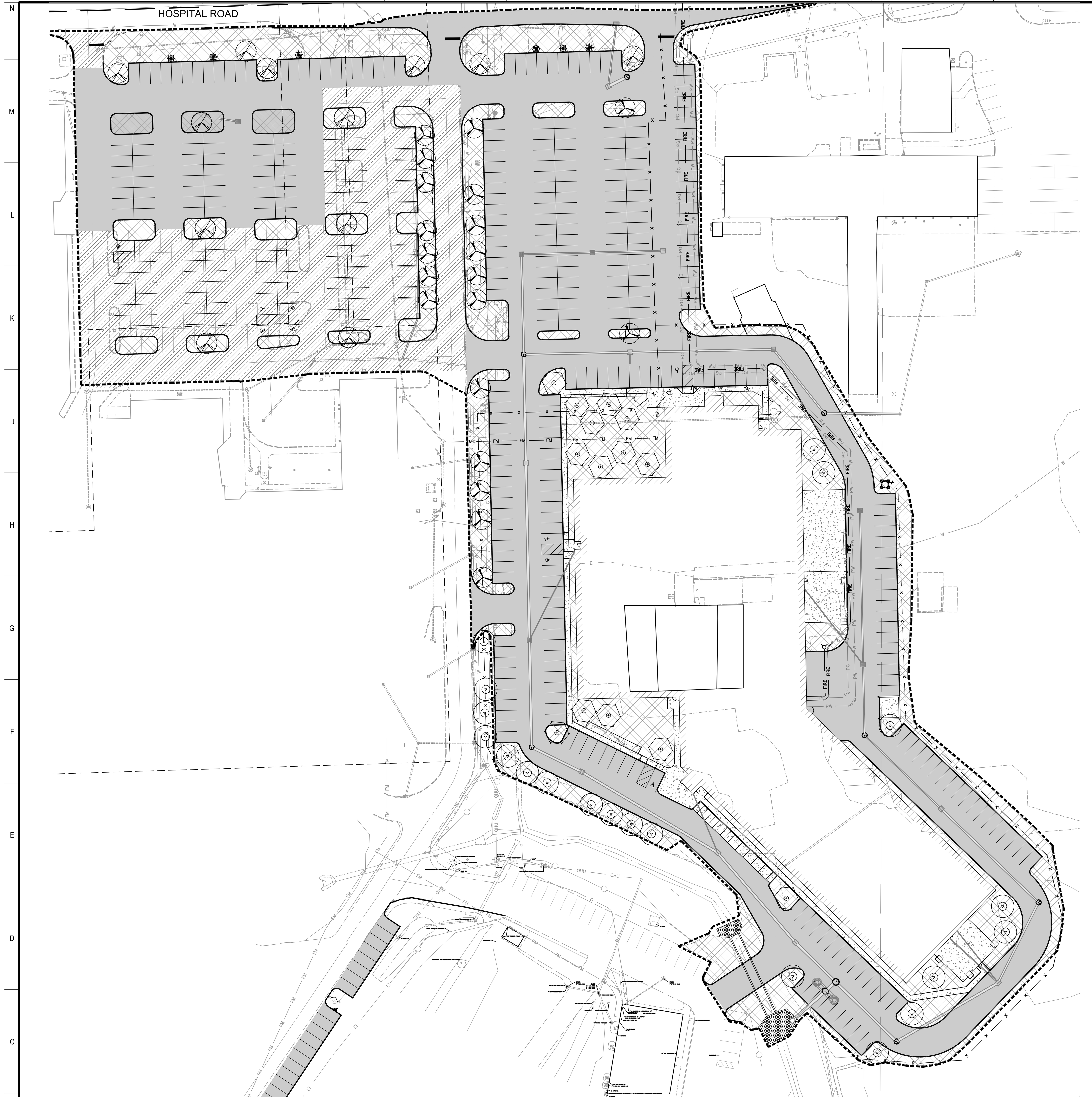
PROJECT NO.	ISSUE DATE
2301301	8-30-2024

SUBMITTAL
100% Construction Document Set

MISCELANEOUS DETAILS

C-901

HOSPITAL ROAD



LANDSCAPE NOTES

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL VEGETATION AND LEAVING ALL LANDSCAPE AREAS AT TWO INCHES BELOW FINAL GRADE. THE LANDSCAPE CONTRACTOR WILL PROVIDE AND SPREAD A COMPACTED TWO INCH DEPTH OF LOAMY TOPSOIL IN ALL TURF AREAS – BRINGING THESE AREAS TO TOP OF CURB/FINAL GRADE (COMPACTED). THE LANDSCAPE CONTRACTOR WILL PROVIDE AND INSTALL A FOUR INCH DEPTH OF PLANTING MIX TO ALL PLANTING BEDS – CROWNING FOR PROPER DRAINAGE. (SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.)
2. A THREE INCH DEPTH OF SHREDDED HARDWOOD BARK MULCH WILL BE USED AS A TOP DRESSING FOR ALL PLANTING BEDS AND TREE RINGS.
3. LANDSCAPE CONTRACTOR SHALL MAKE OWN PLANT QUANTITY TAKEOFFS USING DRAWINGS, SPECIFICATIONS AND PLANT SCHEDULE. PLANT SCHEDULE REQUIREMENTS (I.E. SPACING) DICTATE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. LANDSCAPE CONTRACTOR TO VERIFY BED MEASUREMENTS AND INSTALL APPROPRIATE QUANTITIES AS GOVERNED BY THE THE PLANT SPACING PER THE SCHEDULE. ENSURE ALL MINIMUM REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY ARE MET (I.E. MINIMUM PLANT QUANTITIES.)
4. SUBSTITUTIONS OF PLANT MATERIALS MAY BE ALLOWED IF APPROVED BY THE OWNER AND ENGINEER. IF PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING (VIA PROPER CHANNELS). PLANTS MAY BE INSPECTED AND APPROVED OR REJECTED ON THE JOBSITE BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
5. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE LANDSCAPE MAINTENANCE OF THIS PROJECT UNTIL FINAL ACCEPTANCE. TURF AREAS WILL NOT BE ACCEPTED UNTIL THEY AREA AT A MINIMUM OF 1-1/2 INCHES TALL, AND NO BARE AREAS LARGER THAN 12 SQUARE INCHES.
6. TREES SHALL BE PLANTED AT LEAST TWO AND ONE-HALF FEET (2'-6") FROM SIDEWALK OR CURB EDGE.

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE OR COUNTY OFFICIALS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

NORTH

40 0 40 80
SCALE: 1" = 40'

LANDSCAPE LEGEND

GROUNDCOVER

- MULCHED SEEDING
- RIPRAP

BROADLEAF / DECIDUOUS TREES

AHB	**14** AMERICAN HORNBEAM CARPINUS CAROLINIANA 2.5" CALIPER MINIMUM, 6' CLEAR TRUNK
AGG	**20** AUTUMN GOLD GINGO (MALE) GINKO BILOBA "AUTUMN GOLD" 2.5" CALIPER MINIMUM, 6' CLEAR TRUNK
BSW	**20** BASSWOOD TILIA AMERICANA 2.5" CALIPER MINIMUM, 6' CLEAR TRUNK
FEL	**12** FRONTIER ELM ULMUS CARPINIFOLIA X PARVIFOLIA "FRONTIER" 2.5" CALIPER MINIMUM, 6' CLEAR TRUNK

SHRUBS

GMB	6 GREEN MOUNTAIN BOXWOOD BUXUS 'GREEN MOUNTAIN' 3 GAL.

LANDSCAPE NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL VEGETATION AND LEAVING ALL LANDSCAPE AREAS AT TWO INCHES BELOW FINAL GRADE, EXCEPT FOR THE DETENTION POND AREA; GENERAL CONTRACTOR IS RESPONSIBLE FOR BRINGING THE POND AREA TO FINAL GRADE. THE LANDSCAPE CONTRACTOR WILL PROVIDE AND SPREAD A COMPACTED TWO INCH DEPTH OF LOAMY TOPSOIL IN ALL TURF AREAS – BRINGING THESE AREAS TO TOP OF CURB/FINAL GRADE (COMPACTED). THE LANDSCAPE CONTRACTOR WILL PROVIDE AND INSTALL A FOUR INCH DEPTH OF PLANTING MIX TO ALL PLANTING BEDS – CROWNING FOR PROPER DRAINAGE. (SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.)
2. A THREE INCH DEPTH OF SHREDDED HARDWOOD BARK MULCH WILL BE USED AS A TOPDRESSING FOR ALL PLANTING BEDS AND TREE RINGS.
3. LANDSCAPE CONTRACTOR SHALL MAKE OWN PLANT QUANTITY TAKEOFFS USING DRAWINGS, SPECIFICATIONS AND PLANT SCHEDULE. PLANT SCHEDULE REQUIREMENTS (I.E. SPACING) DICTATE, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE DESIGNER. LANDSCAPE CONTRACTOR TO VERIFY BED MEASUREMENTS AND INSTALL APPROPRIATE QUANTITIES AS GOVERNED BY THE THE PLANT SPACING PER THE SCHEDULE. ENSURE ALL MINIMUM REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY ARE MET (I.E. MINIMUM PLANT QUANTITIES.)
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5. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE LANDSCAPE MAINTENANCE OF THIS PROJECT UNTIL FINAL ACCEPTANCE. TURF AREAS WILL NOT BE ACCEPTED UNTIL THEY AREA AT A MINIMUM OF 1-1/2 INCHES TALL, AND NO BARE AREAS LARGER THAN 12 SQUARE INCHES.

LANDSCAPE PLANTING SPECIFICATIONS

QUALIFICATIONS OF LANDSCAPE CONTRACTOR

1. THE LANDSCAPING SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
3. THE LANDSCAPE CONTRACTOR MUST HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE INDIANA DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE – ISSUED BY EITHER THE INDIANA DEPARTMENT OF AGRICULTURE OR THE INDIANA STRUCTURAL PEST CONTROL BOARD.

PRODUCTS

1. ALL MANUFACTURED PRODUCTS WILL BE NEW.
2. TOPSOIL: A FRIABLE, LOAMY TOPSOIL (OR SILTY SAND) WITH MINIMAL CLAY CLODS.
3. PLANTING MIX: AN EQUAL PART MIXTURE OF TOPSOIL, SAND AND COMPOST.
4. STARTER FERTILIZER: A 13-13-13 RATIO WITH 25% SCU, 5% SULFUR, 2% IRON AND ADDITIONAL MICRONUTRIENTS.
5. PRE-EMERGENCE: ANY GRANULAR, NON-STAINING PRE-EMERGENCE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF IT WILL BE UTILIZED ON. A PRE-EMERGENCE HERBICIDE IS TO BE APPLIED PER THE MANUFACTURER'S LABELED RATES.
6. MULCH: AS SPECIFIED ON THE PLANTING PLAN – WELL DECOMPOSED.
7. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.
8. WEED BARRIER: A 5 OUNCE, WOVEN, NEEDLE-PUNCHED FABRIC. ACCEPTABLE PRODUCT INCLUDES DEWITT' PRO 5, OR APPROVED EQUAL.
9. TREE STAKES: 6' GREEN METAL T-POSTS
10. TREE CHAIN: 1" WIDE PLASTIC TREE CHAIN

TREE PLANTING

1. TREE HOLES SHALL BE EXCAVATED TO A WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL (LESS TWO INCHES).
2. SCARIFY THE SIDES AND BOTTOM OF THE TREE HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
3. INSTALL THE TREE SO THE TOP OF THE ROOTBALL IS ONE TO TWO INCHES ABOVE THE SURROUNDING GRADE.
4. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. CLAY, ROCKS AND OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE, ADD NO ADDITIONAL COST TO THE OWNER.
5. THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUM'S LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, IT WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING WILL CONSISTS OF, AT A MINIMUM:
   - 15 – 30 GAL TREES (2) STAKES PER TREE
   - 45 – 100 GAL TREES (3) STAKES PER TREE
   - MULTI-TRUNK TREES NO MINIMUM
6. UPON COMPLETION OF THE PLANTING, AN EARTH WATERING BASIN WILL BE CONSTRUCTED AROUND THE TREE. THE INTERIOR OF THE TREE RING WILL THEN BE COVERED WITH THE WEED BARRIER CLOTH, AND TOPDRESSED WITH A THREE INCH LAYER OF MULCH.

CLEAN UP

1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
2. ALL EXCAVATED MATERIALSWILL BE DISPOSED OF LEGALLY OFF THE PROJECT SITE.

INSPECTION AND ACCEPTANCE

1. UPON COMPLETION OF THE WORK, PROVIDE THE SITE CLEAN AND FREE OF MATERIALS AND SUITABLE FRO USE AS INTENDED.
2. WHEN THE PLANTING WORK IS COMPLETED, THE OWNER WILL MAKE AN INSPECTION TO DETERMINE ACCEPTABILITY.
3. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, REPLACE THE REJECTED WORK WITHIN 24 HOURS.
4. LANDSCAPE MAINTENANCE WILL CONTINUE UNTIL RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. ONCE ACCEPTABLE, FINAL ACCEPTANCE WILL BE ISSUED, AND THE REQUIRED MAINTENANCE PERIOD WILL COMMENCE.

SCOPE OF WORK

1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING OF ANY PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLAN.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
3. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, TELEVISION, ETC...) PRIOR TO THE START OF ANY WORK.

PLANT MATERIALS

1. PROVIDE PLANTS TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS.
2. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DISFIGURING KNOTS, SUNSCALD INJURIES, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT EGGS, BORERS AND ALL OTHER FORMS OF INFESTATION.
3. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS SHALL BE REMOVED AT TIME OF PLANTING.
4. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
5. CRACKED OR MUSHROOMED ROOTBALLS ARE NOT ACCEPTABLE.
6. CALIPER MEASUREMENT FOR STANDARD (SINGLE TRUNK) TREES SHALL BE TAKEN AS FOLLOWS: SIX INCHES ABOVE THE NATURAL GRADE LINE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER; AND TWELVE INCHES ABOVE THE NATURAL GRADE LINE FOR TREES EXCEEDING FOUR INCHES IN CALIPER – UNLESS SPECIFIED DIFFERENTLY ON THE LANDSCAPE PLAN.
7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL PLANTED HEIGHT.

SHRUB AND GROUNDCOVER PLANTING

1. UPON APPROVAL OF THE GRADE LEFT BY THE GENERAL CONTRACTOR, THE LANDSCAPE CONTRACTOR WILL ROTOTILL THE PROPOSED BED LOCATIONS (BEFORE ADDING THE IMPORTED SOIL). A FOUR INCH DEPTH OF THE SPECIFIED PLANTING MIX WILL THEN BE EVENLY SPREAD OVER THE DESIGNATED BED AREA. THE PLANTING BED WILL THEN BE ROTOTILLED AGAIN , AND A PRE-EMERENCE AND STARTER FERTILIZER WILL BE APPLIED.
2. THE PLANTING BED WILL THEN BE HAND RAKED SMOOTH AND CROWNED FOR PROPER DRAINAGE.
3. DIG THE HOLD TWICE AS WIDE AS THE PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT.
4. INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE.
5. A TWO INCH DEPTH OF MULCH WILL THEN BE INSTALLED AS A TOP DRESSING, COVERING THE ENTIRE PLANTING AREA.

TURF AREA PREPARATION

1. THE GENERAL CONTRACTOR WILL LEAVE ALL TURF AREAS (EXCLUDING THE DETENTION PONDS) AT TWO (2) INCHES BELOW FINAL GRADE. THE LANDSCAPE CONTRACTOR SHALL IMPORT AND SPREAD A COMPACTED TWO INCH DEPTH OF LOAMY TOPSOIL – ENSURING THE SOIL IS COMPACTED.
2. LANDSCAPE CONTRACTOR WILL ENSURE ALL AREAS ARE CROWNED FOR PROPER DRAINAGE
3. APPLY THE STARTER FERTILIZER.

SODDING

1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS – DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
4. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
5. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.

HYDROMULCHING

1. THE HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
   - 35# CELLULOSE FIBER MULCH
   - 2# FESCUE SEED
   - 1# ANNUAL RYE SEED
   - 10# 15-15-15 WATER SOLUBLE FERTILIZER

LANDSCAPE MAINTENANCE

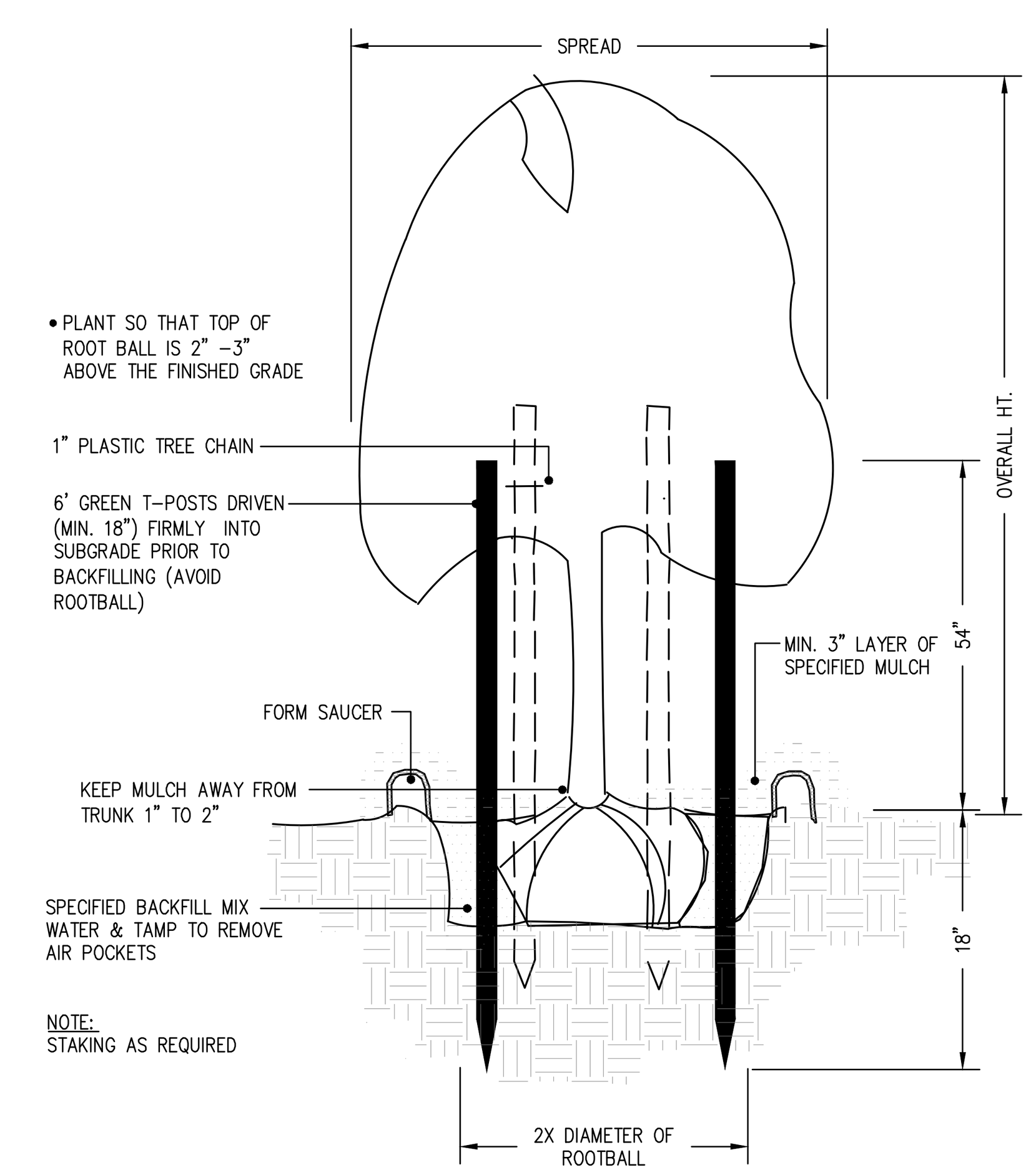
1. THE MAINTENANCE PERIOD SHALL COMMENCE ONCE FINAL ACCEPTANCE HAS BEEN ISSUED BY THE OWNER, AND SHALL CONTINUE FOR A PERIOD OF NINETY (90) DAYS.
2. THE MONITORING AND SCHEDULING OF THE IRRIGATION SYSTEM WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR DURING THIS TIME. COORDINATE ALL SCHEDULING AND ANY ACCESS REQUIREMENTS WITH THE OWNER.
3. LANDSCAPE MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: WEEKLY SITE VISITS FOR MOWING, EDGING, BLOWING, WEEDING, TRIMMING, PRUNING, FERTILIZING, WEED CONTROL, INSECT CONTROL, DISEASE CONTROL, RE-STAKING, RE-SETTING OF PLANTS TO THEIR PROPER GRADE OR THEIR UPRIGHT POSITION, AND ANY OTHER MEANS TO KEEP THE PLANTINGS HEALTHY, FREE OF INSECTS AND DISEASES, AND IN A CONTINUAL THRIVING CONDITION.

WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS

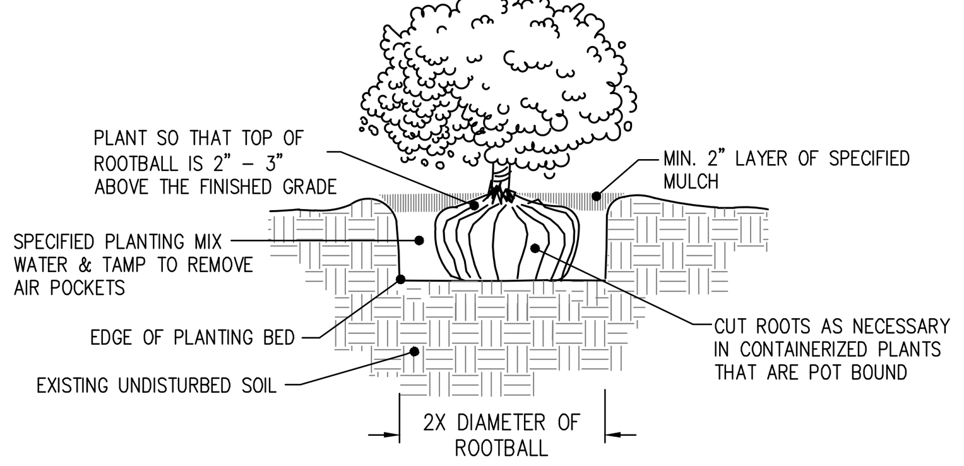
1. PLANT MATERIALS SUPPLIED SHALL BE WARRANTIED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF TWELVE (12) MONTHS AFTER THE DATE OF FINAL ACCEPTANCE BY OWNER {SEASONAL ANNUALS FOR 90 DAYS FROM FINAL ACCEPTANCE}. PLANTS IN AN IMPAIRED, DEAD OR DYING CONDITION AFTER INITIAL ACCEPTANCE OR WITHIN THE WARRANTY PERIOD SHALL BE REMOVED AND REPLACED IMMEDIATELY TO THE SATISFACTION OF THE OWNER.

RECORD DRAWINGS

1. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.



TREE PLANTING AND STAKING DETAIL
NOT TO SCALE



SHRUB/GROUNDCOVER PLANTING DETAIL
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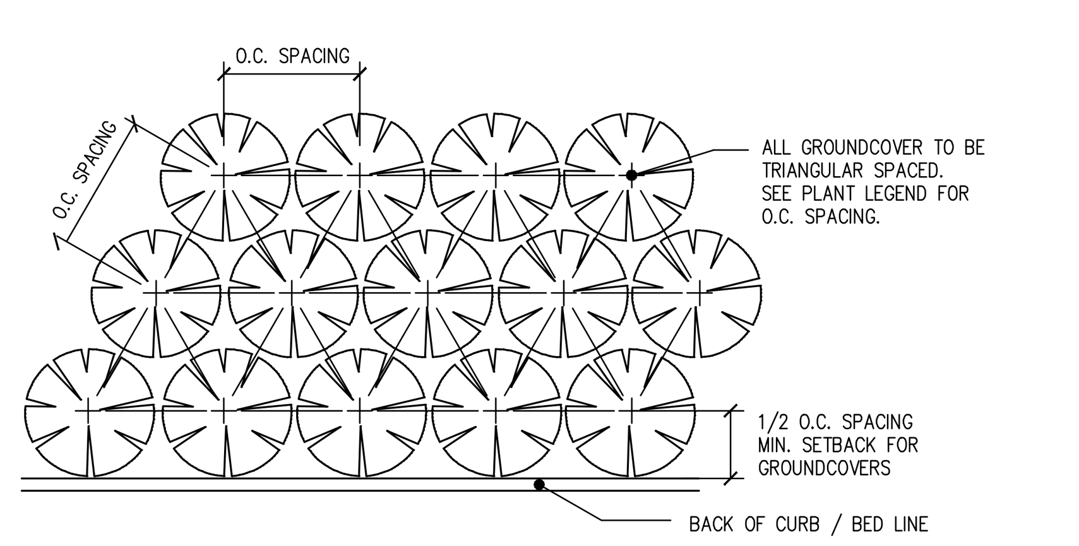

GROUNDCOVER SPACING DETAIL
NOT TO SCALE

SITE INTERIOR REQUIREMENTS

SITE INTERIOR OPEN SPACE REQUIRED

TOTAL SITE AREA	=	345,644 SFT.
OPEN SPACE PROVIDED	=	60,701 SFT.

SITE INTERIOR LANDSCAPING TREES REQUIRED

1 TREE/2,500 SFT. REQUIRED OPEN SPACE =	25 TREES
SITE INTERIOR LANDSCAPE TREES PROVIDED =	25 TREES

PARKING LOT PERIMETER REQUIREMENTS

PARKING LOT PERIMETER LANDSCAPE LENGTH

LINEAR FEET OF LANDSCAPE AREA	=	432 LINEAR FEET

PARKING LOT PERIMETER LANDSCAPING REQUIRED

1 TREE/80 LINEAR FEET	=	6 TREES
1 SHRUB/80 LINEAR FEET	=	6 SHRUBS

PARKING LOT INTERIOR REQUIREMENTS

PARKING LOT INTERIOR LANDSCAPE AREA REQUIRED

TOTAL PAVED/CONCRETE AREA	=	206,810 SFT.
LANDSCAPE AREA REQUIRED	=	10,340.5 SFT. (5%)
LANDSCAPE AREA PROVIDED	=	37,297 SFT. (18%)

PARKING LOT INTERIOR LANDSCAPING TREES REQUIRED

1 TREE/300 SFT. REQUIRED LANDSCAPE AREA	= 35 TREES
PARKING LOT INTERIOR LANDSCAPE TREES PROVIDED	= 35 TREES

EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

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1071 HOSPITAL ROAD FRANKLIN, INDIANA

DRAWN	DEP	CHECKED	GJI
DESIGNED	BRV	APPR.	GJI

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO. 2301301
ISSUE DATE 8-30-2024
SUBMITTAL 100% Construction Document Set

LANDSCAPE PLAN

L-1000

DIRECTORY PATH : R:\Active\Elevatus Architecture\JoCo Probation & Corrections\Design\CAD\Plans
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