PROPOSED

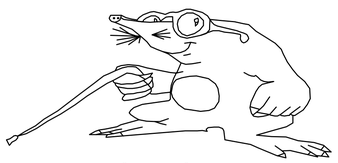
COUNTRY CLUB DRIVE SIDEPATH PHASE III

FROM ROCKPORT ROAD TO 600 FEET WEST OF ROGERS STREET BLOOMINGTON, INDIANA

LOCATION MAP
SCALE: 1"=2000'

INDEX

SHEET NO.	DESCRIPTION
1	TYPICAL & MISC. DETAILS
2-6	PLAN AND PROFILE SHEETS
7-11	CROSS SECTION SHEETS
12	EROSION DETAILS



"Holey Moley" says,
"DON'T DIG BLIND"

Call Monday through Friday – 7 AM to 6 PM
1-800 382-5544 Within Indiana
1-800 428-5200 Outside Indiana

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BYNUM FANYO & ASSOCIATES, INC.

architecture
civil engineering
planning

528 North Walnut St. Bloomington, Indiana 47404 (812) 332-8030

OWNER/DEVELOPER
BLOOMINGTON PUBLIC WORKS DEPT.
401 N. MORTON STREET
BLOOMINGTON, INDIANA 47402

JEFFREY S. FANYO No. 18283 STATE OF INDIANA PROFESSIONAL ENGINEER

certified by:
2-4-10
JEFFREY S. FANYO, P.E.
IND. REG. NO. 18283

revisions

EXISTING LEGEND

PROPERTY LINE	
EXISTING FENCE	
DEED BOOK AND PAGE	XXX/XXX
EXISTING WATER LINE	EXIST 12"WL
EXISTING OVERHEAD ELECTRIC AND TELEPHONE LINES	OHE+OHT
EXISTING UNDERGROUND ELECTRIC AND TELEPHONE LINES	UGE+UGT
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING CONTOUR	XXX
FLOW LINE	
TO BE REMOVED	T.B.R.

GENERAL LEGEND

PROPERTY LINE	
DEED BOOK AND PAGE	XXX/XXX
TO BE REMOVED	T.B.R.
SETBACK LINE	X' SBL
PROPOSED 20'x10' DUMPSTER PAD SURROUNDED BY 6' SOLID WOOD FENCE WITH GATE	
PROPOSED HANDICAP PARKING	
SANITARY SEWER EASEMENT	S.S.E.
GAS EASEMENT	G.E.
WATERLINE EASEMENT	W.L.E.
ELECTRIC EASEMENT	E.E.
DRAINAGE EASEMENT	D.E.
UTILITY EASEMENT	U.E.

SITE LEGEND

A	PROPOSED BITUMINOUS PAVING
14	PROPOSED 24" CONCRETS ROLL CURB
15	PROPOSED 24" CONCRETS CURB & GUTTER
R	PROPOSED CURB RAMP, TYPE "K"
R1	PROPOSED CONCRETE HANDICAPPED RAMP
F	PROPOSED CONCRETS SIDEWALK
F1	PROPOSED MONOLITHIC CONCRETS CURB AND SIDEWALK
W	PROPOSED MULTI-USE PATH
R1-1	PROPOSED STOP SIGN
SB	PROPOSED STOP BAR
XX	PROPOSED NUMBER OF PARKING SPACES PER LOT

SEE TYPICAL DETAILS (SHEET ____) FOR CLARIFICATION.

UTILITY AND GRADING LEGEND

PROPOSED 8" DIP WATERLINE	8"- WL
PROPOSED WATER VALVE	
PROPOSED 6" CAP AND VALVE	
PROPOSED FLUSH HYDRANT (FH)	
PROPOSED WATER METER	
PROPOSED 8" PVC SANITARY SEWER	LINE "S-X"
PROPOSED SANITARY MANHOLE	
PROPOSED 4" SANITARY LATERAL	4" SSL
PROPOSED SANITARY CLEAN-OUT	
PROPOSED STORM PIPE AND INLET	
PROPOSED RIP-RAP ON FILTER FABRIC AND END SECTION	RR
PROPOSED CONTOUR	XXX
FLOW LINE	
PROPOSED T.O.C. ELEVATION	XXX.XX
PROPOSED BOTTOM OF CURB ELEVATION	XXX.XX
PROPOSED SPOT GRADE ELEVATION	XXX.XX
FINISHED EARTH PAD ELEVATION	F.P.=XXX.XX
FINISHED BASEMENT ELEVATION	F.B.=XXX.XX

NOTE: ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BLOOMINGTON UTILITY SPECIFICATIONS.

EROSION CONTROL LEGEND

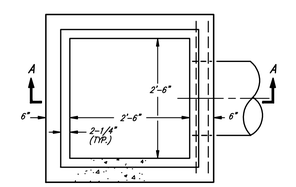
SB1	STRAW BALE INLET PROTECTION (TEMPORARY)
SF	SILTATION FENCE (TEMPORARY)
MS	MULCH SEEDING - SEE SPECIFICATIONS (TEMPORARY)
SP	20' X 50' STONE PAD, 6" DEEP TO KEEP FROM TRACKING MUD OFF SITE (TEMPORARY)
SB2	STRAW BALE (TEMPORARY)
CD	CHECK DAM (PERMANENT)
GP	GRAVEL INLET PROTECTION

SEE EROSION CONTROL DETAILS (SHEET 12) FOR CLARIFICATION

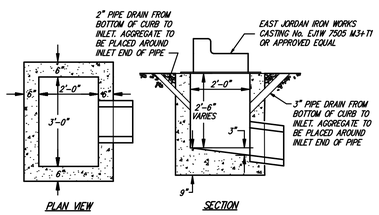
Note:
The contractor shall be responsible for relocating the existing fire hydrants and resetting them to the proposed grade. The contractor shall be responsible for the cost of pipe, pipe restraints, fittings risers and other materials required to relocate the hydrants in accordance with the City of Bloomington Utilities Department specifications.

The contractor shall be responsible for adjusting all castings to grade within the project limits. This includes but is not limited to the sanitary sewer castings installed along the proposed sidepath by the City of Bloomington Utilities Department.

NOTE: CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.



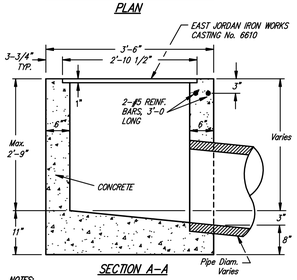
PLAN



PLAN VIEW SECTION

STORM INLET, TYPE "I"
NOT TO SCALE

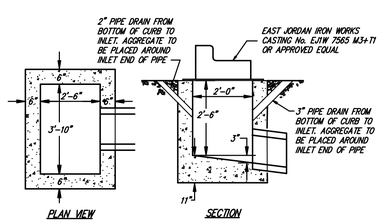
NOTES: 1. FOR INLET INVERT ELEVATIONS SEE STRUCTURE NOTE OR STRUCTURE DATA TABLE.



SECTION A-A

NOTES:
1. All precast Manhole Material shall conform to ASTM C-478 and the standard specifications (min. sq ft of reinforcing steel per lineal foot of barrel shall be 0.12).
2. Joints between sections of precast manholes shall be in accordance with ASTM C-443.

STORM INLET, INDOT TYPE "E"
NOT TO SCALE



PLAN VIEW SECTION

STORM INLET, TYPE "B"
NOT TO SCALE

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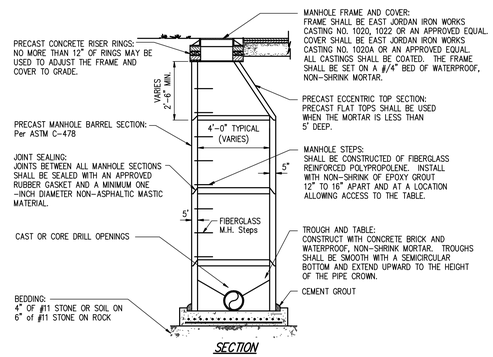
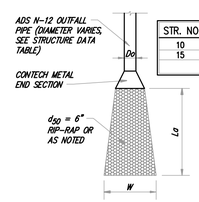


TYPICAL STORM MANHOLE
NOT TO SCALE

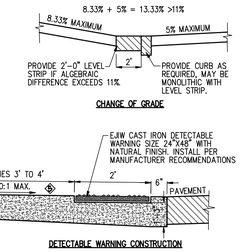


STR. NO.	Do	La (FT.)	W (FT)
10	24	18	19.5
15	30	14	16

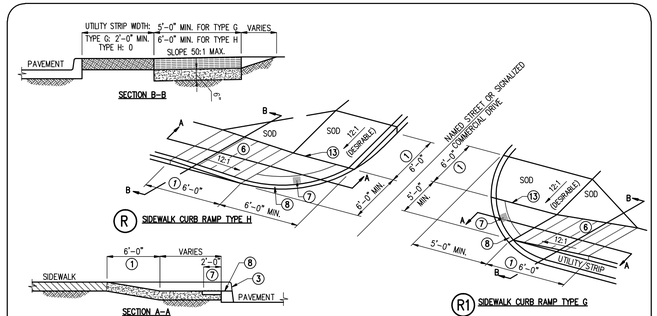
(ET1) STORM PIPE OUTFALL END TREATMENT DETAIL
NOT TO SCALE

GENERAL NOTES:

1. THESE DIMENSIONS ARE BASED ON A 6 IN. CURB HEIGHT. THEY SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. WHERE SITE INFEASIBILITY PRECLUDES CONSTRUCTION TO THE WIDTH SHOWN, SUCH WIDTH MAY BE DECREASED TO A MINIMUM OF 3'-0".
3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF ADJACENT PAVEMENT AND GUTTER LINE.
4. LANDING AREAS AT THE TOP OF THE CURB RAMPS SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION WHEN SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR THE CURB FACE SHALL NOT EXCEED 50:1.
5. IF THE SITE FEASIBILITY PRECLUDES CONSTRUCTION TO THE WIDTH SHOWN, THE LANDING WIDTH MAY BE DECREASED TO 3'-0" MINIMUM. THE RUNNING SLOPE OF THE CURB RAMP MAY BE STEEPENED TO A MAXIMUM OF 10:1 FOR A MAXIMUM 6 IN. RISE.
6. DRAINAGE INLETS SHOULD BE LOCATED UPHILL FROM CURB RAMPS TO PREVENT PUDDLES AT THE PATH OF TRAVEL.
7. SEE STANDARD DRAWING E604-SWCR-12 FOR IMPROVED ACCESS ON NARROW SIDEWALKS.
8. ALGEBRAIC DIFFERENCE IN GRADE BETWEEN THE BASE OF CURB RAMP AND THE GUTTER SHALL BE LIMITED TO LESS THAN 11%. IF IT IS NOT PRACTICAL, A 2'-0" WIDE LEVEL STRIP SHALL BE PROVIDED. SEE DETAIL.
9. MINIMUM RECOMMENDED WIDTH OF RAMP IS 4'-0".



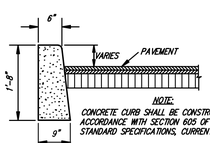
SIDEWALK CURB RAMP GENERAL NOTES & DETAILS



NOTES:

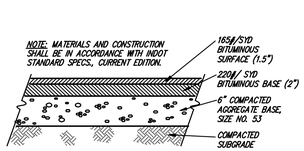
6. SEE STANDARD DRAWING E 604-SWCR-02 FOR GROOVE DETAILS.
7. SEE STANDARD DRAWING E 604-SWCR-02 FOR DETAILS OF THE DETECTABLE WARNING SURFACE
8. SEE STANDARD DRAWING E 604-SWCR-02 FOR ALTERNATE CURB CONSTRUCTION.
10. SIDEWALK ACROSS APPROACH SHALL BE SLOPED AT 50:1 MAXIMUM TRANSVERSELY.
11. SEE STANDARD DRAWING E 604-SWCR-02 FOR TYPICAL RAMP CONSTRUCTION DETAIL.
12. SEE STANDARD DRAWING E 604-SWCR-01 AND -02 FOR LOCATION PLAN AND GENERAL NOTES RESPECTIVELY.
13. VERTICAL FACE CURB OPTIONAL.

INDIANA DEPARTMENT OF TRANSPORTATION
SIDEWALK CURB RAMPS
TYPE G AND TYPE H
STANDARD DRAWING NO. E 604-SWCR-09

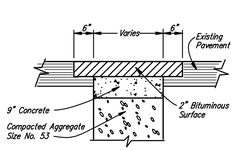


NOTE: CONCRETE CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 605 OF THE INDOT STANDARD SPECIFICATIONS, CURRENT EDITION.

(13) CONCRETE CURB
NOT TO SCALE

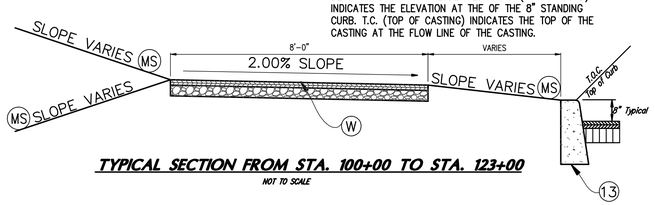


(W) BITUMINOUS PAVING DETAIL
NOT TO SCALE



(PP) BITUMINOUS PAVEMENT PATCH
NOT TO SCALE

NOTE: TYPICAL CURB HEIGHT FOR THIS PROJECT SHALL BE 8" AS SHOWN IN THE DETAILS. T.O.C. (TOP OF CURB) INDICATES THE ELEVATION AT THE OF THE 8" STANDING CURB. T.C. (TOP OF CASTING) INDICATES THE TOP OF THE CASTING AT THE FLOW LINE OF THE CASTING.



TYPICAL SECTION FROM STA. 100+00 TO STA. 123+00
NOT TO SCALE

revisions:

designed by:
drawn by: JR

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
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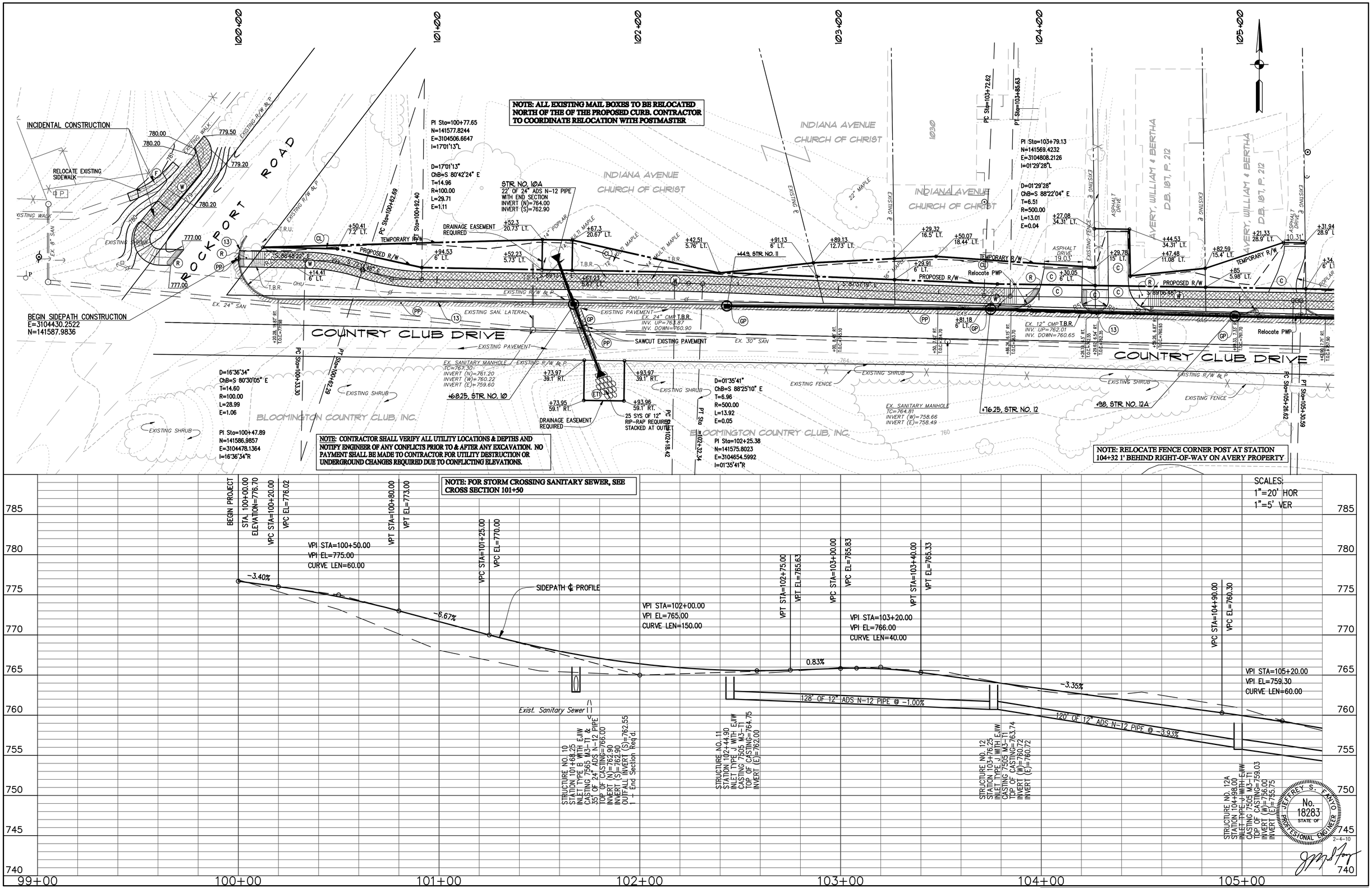
JEFFREY S. FANYO
No. 18283
STATE OF
PROFESSIONAL ENGINEER
2-4-10
certified by:

Proposed:
COUNTRY CLUB DRIVE SIDEPATH PHASE III
Country Club Drive
Bloomington Indiana

title: MISCELLANEOUS DETAILS

Sheet No: 1 of 12
project no.: 400269



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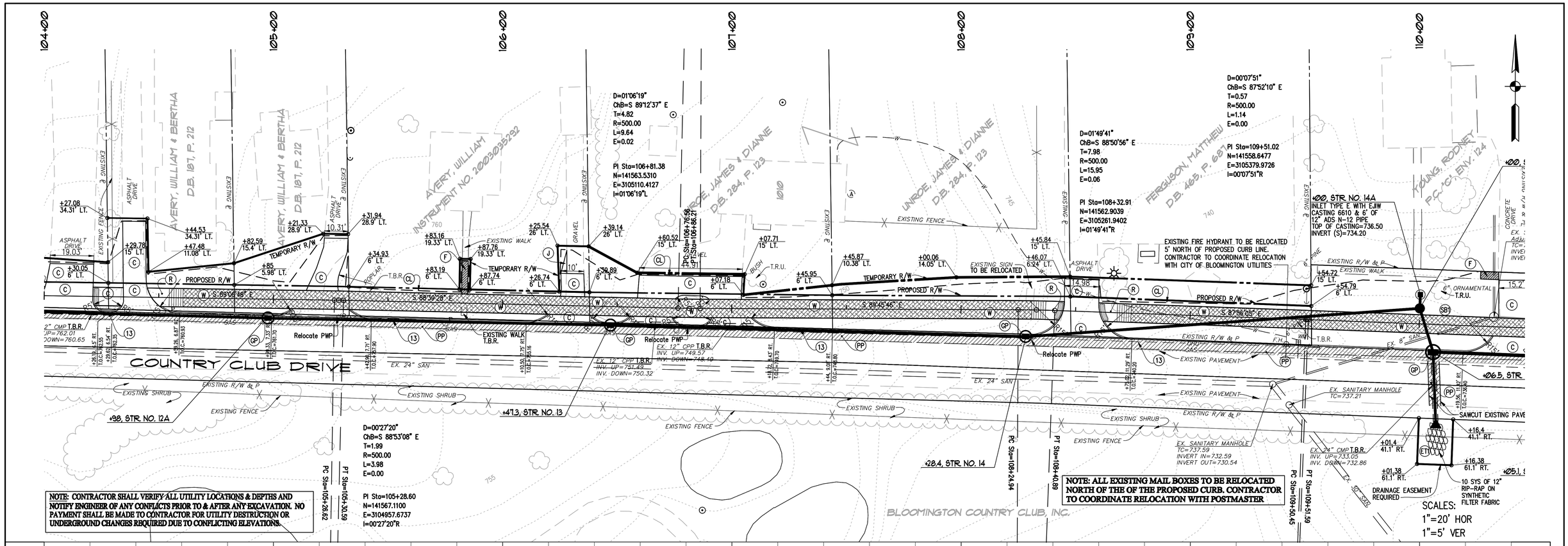
PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	2	12	LINE W



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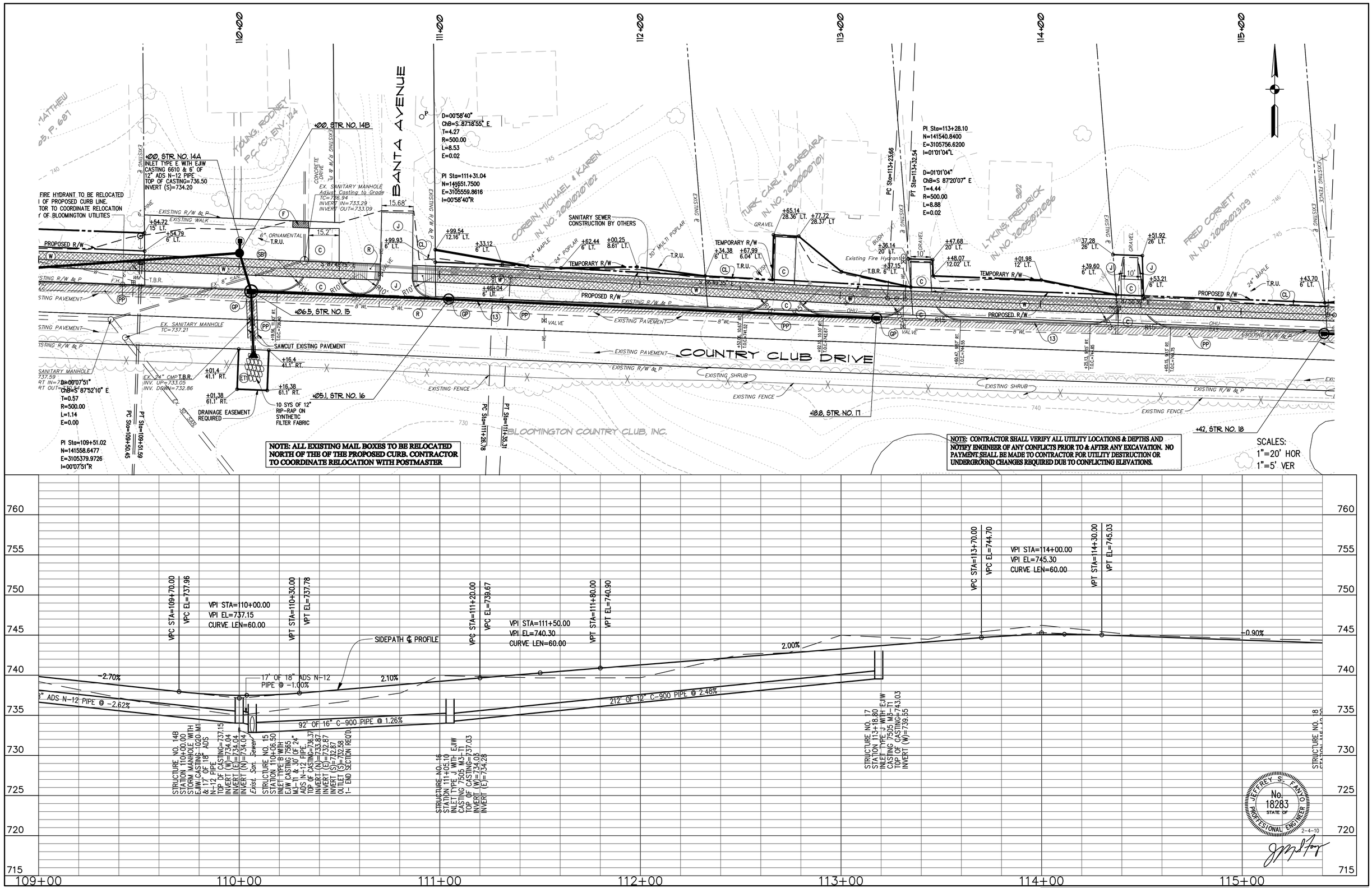
PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400243	3	12	LINE "W"



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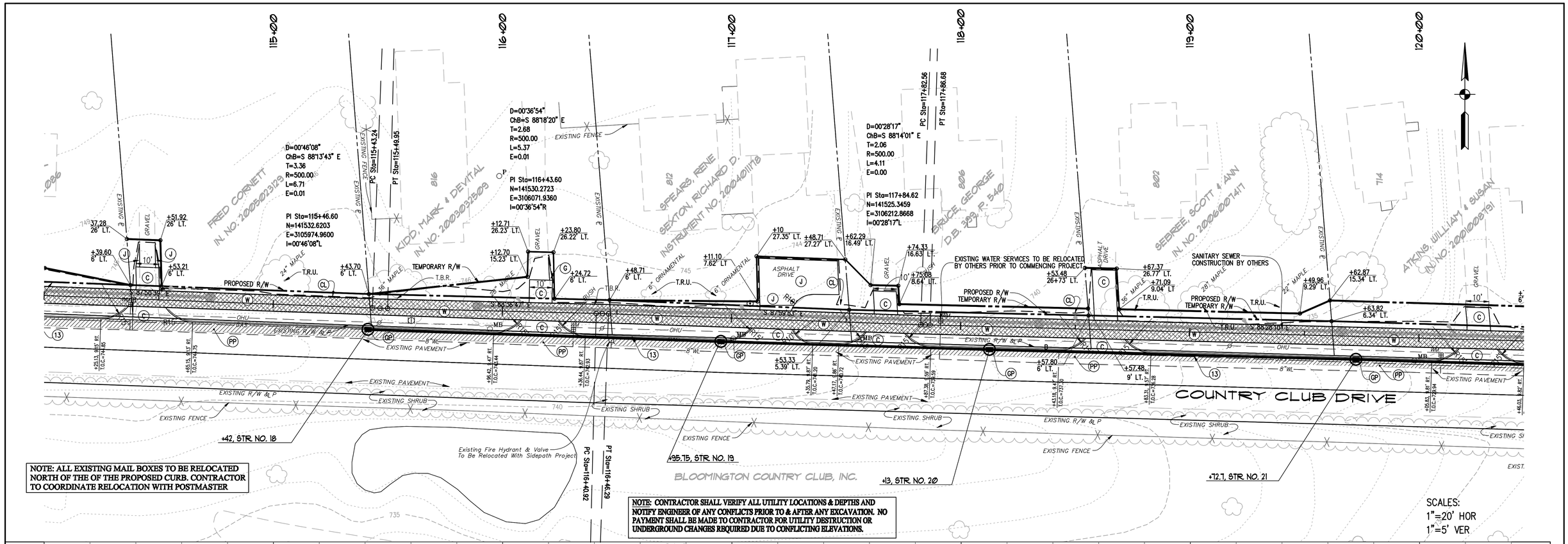
PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	4	12	LINE W



NOTE: ALL EXISTING MAIL BOXES TO BE RELOCATED NORTH OF THE OF THE PROPOSED CURB. CONTRACTOR TO COORDINATE RELOCATION WITH POSTMASTER

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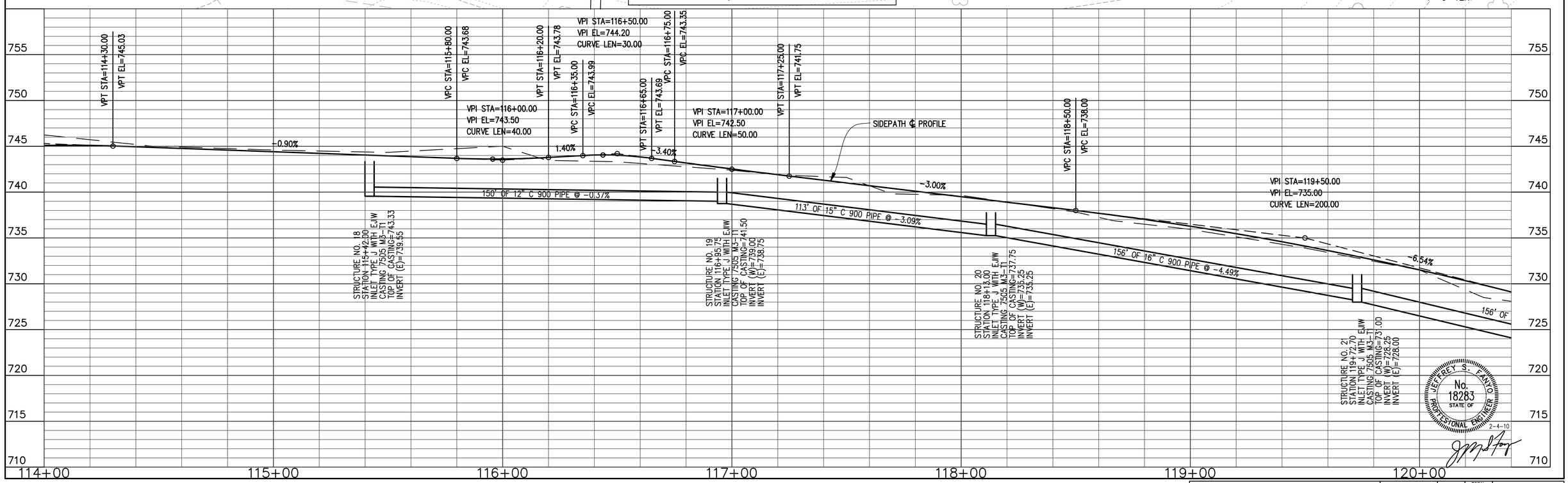

JEFFREY S. FANYO No. 18283 STATE OF INDIANA PROFESSIONAL ENGINEER 2-4-10

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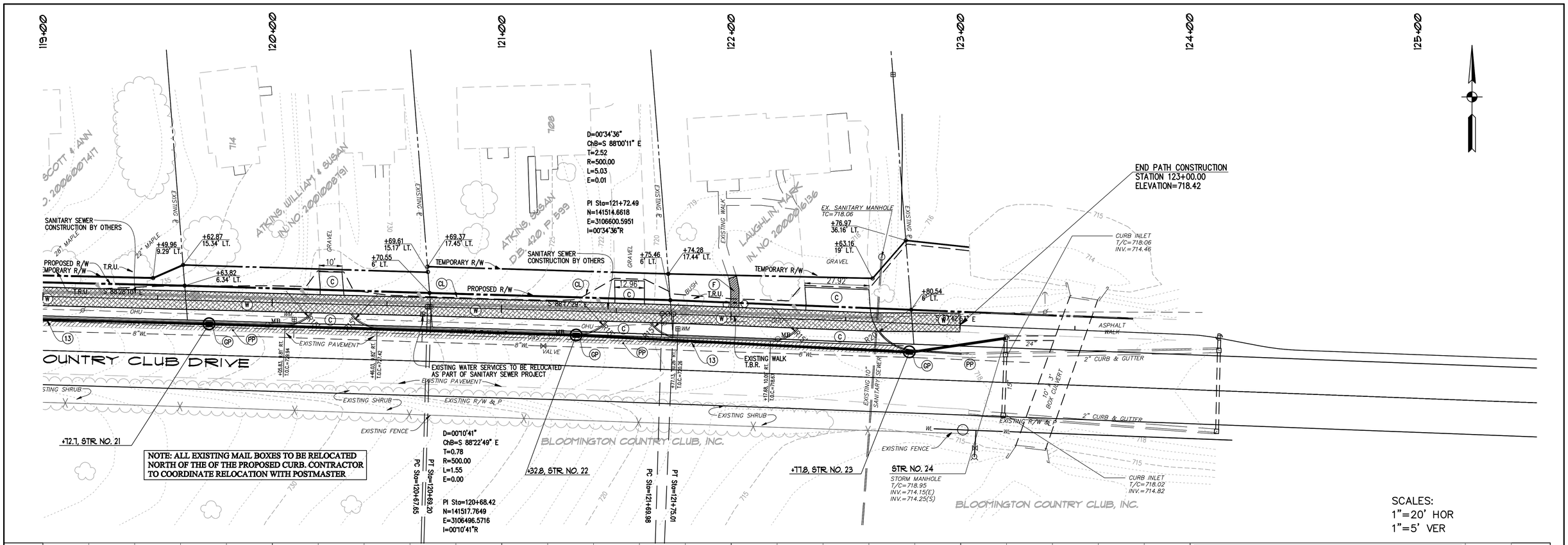
PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	5	12	LINE W



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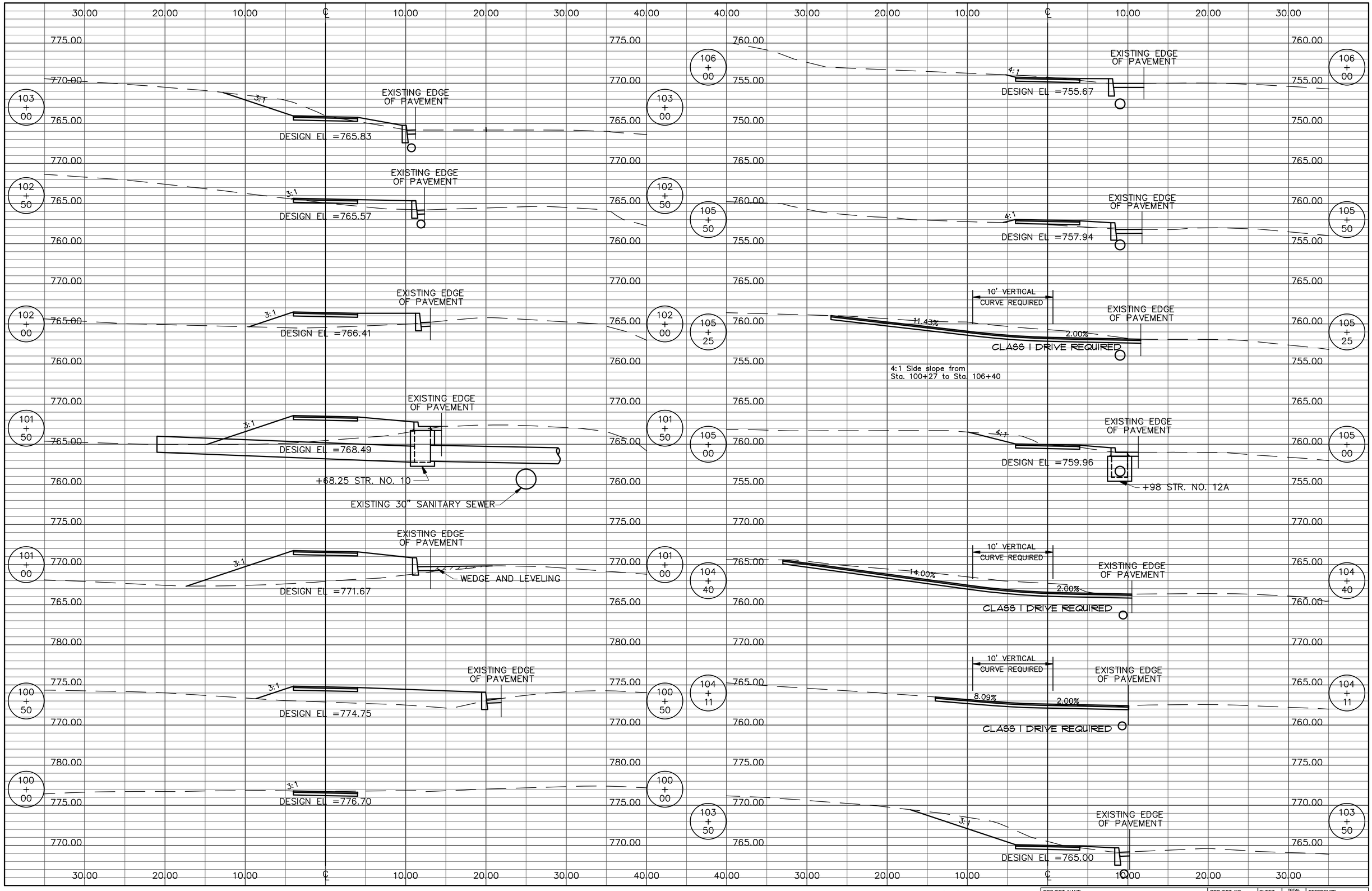
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	6	12	LINE W



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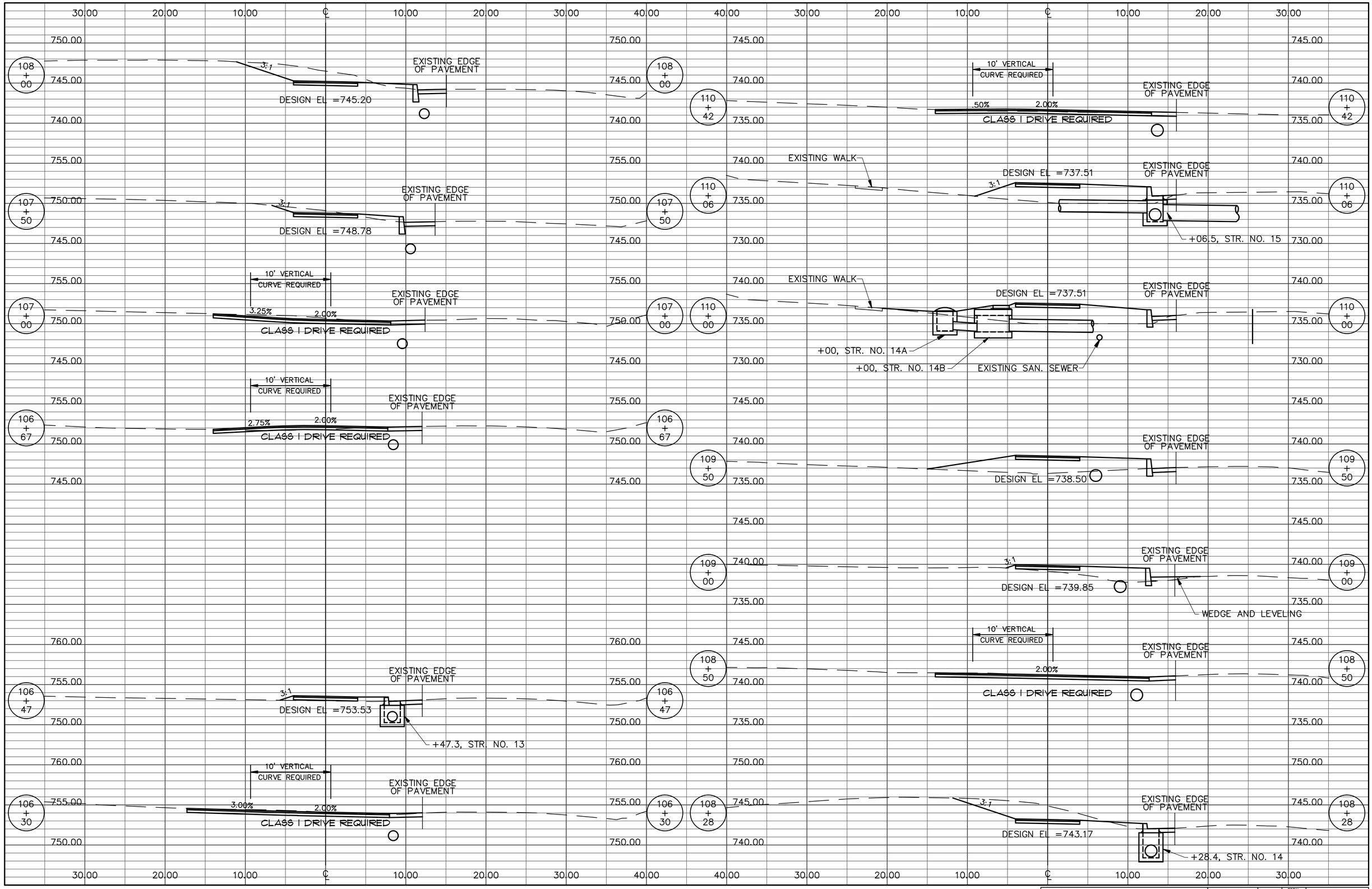
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	7	12	LINE W



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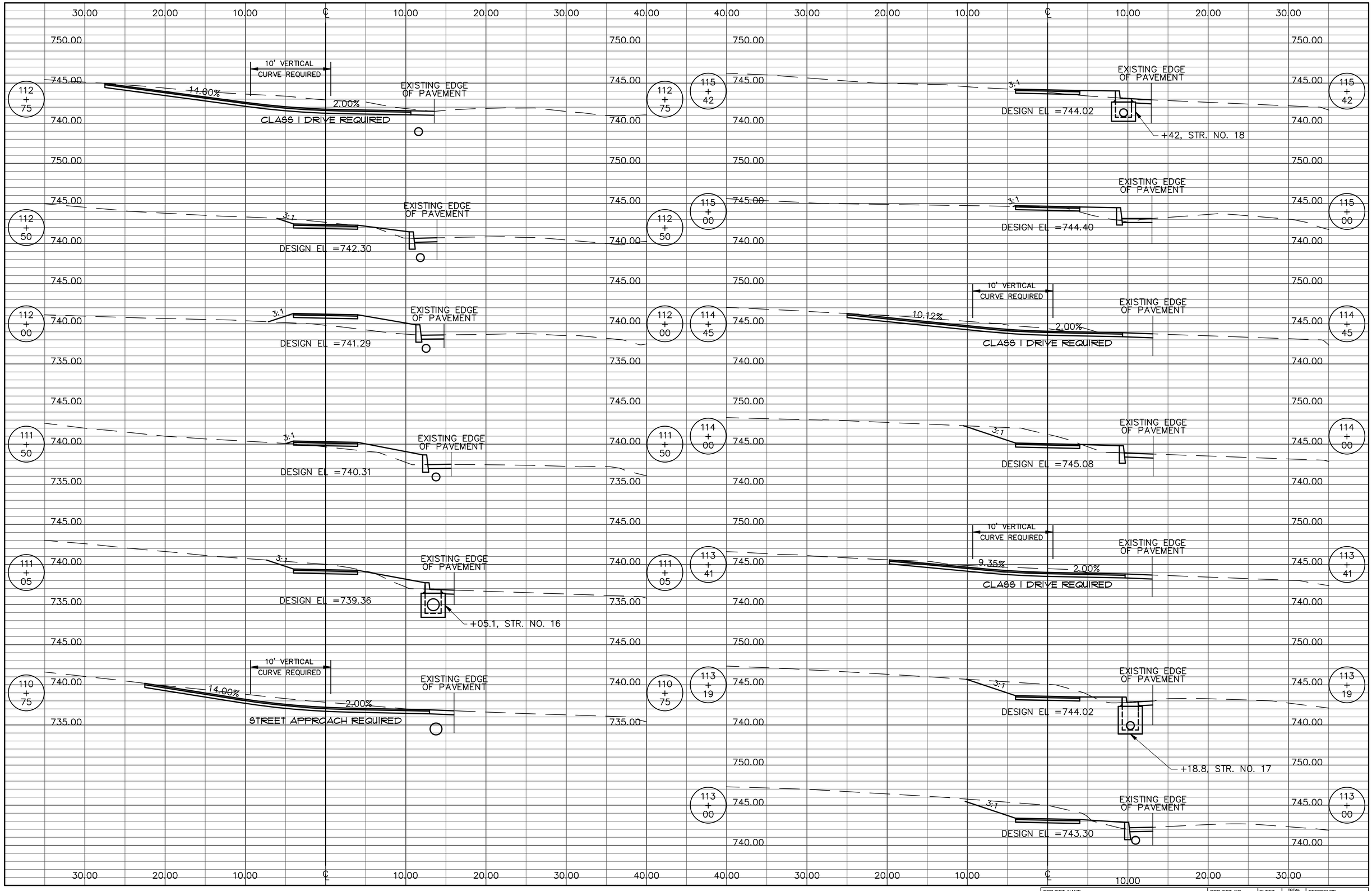
PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	8	12	LINE W



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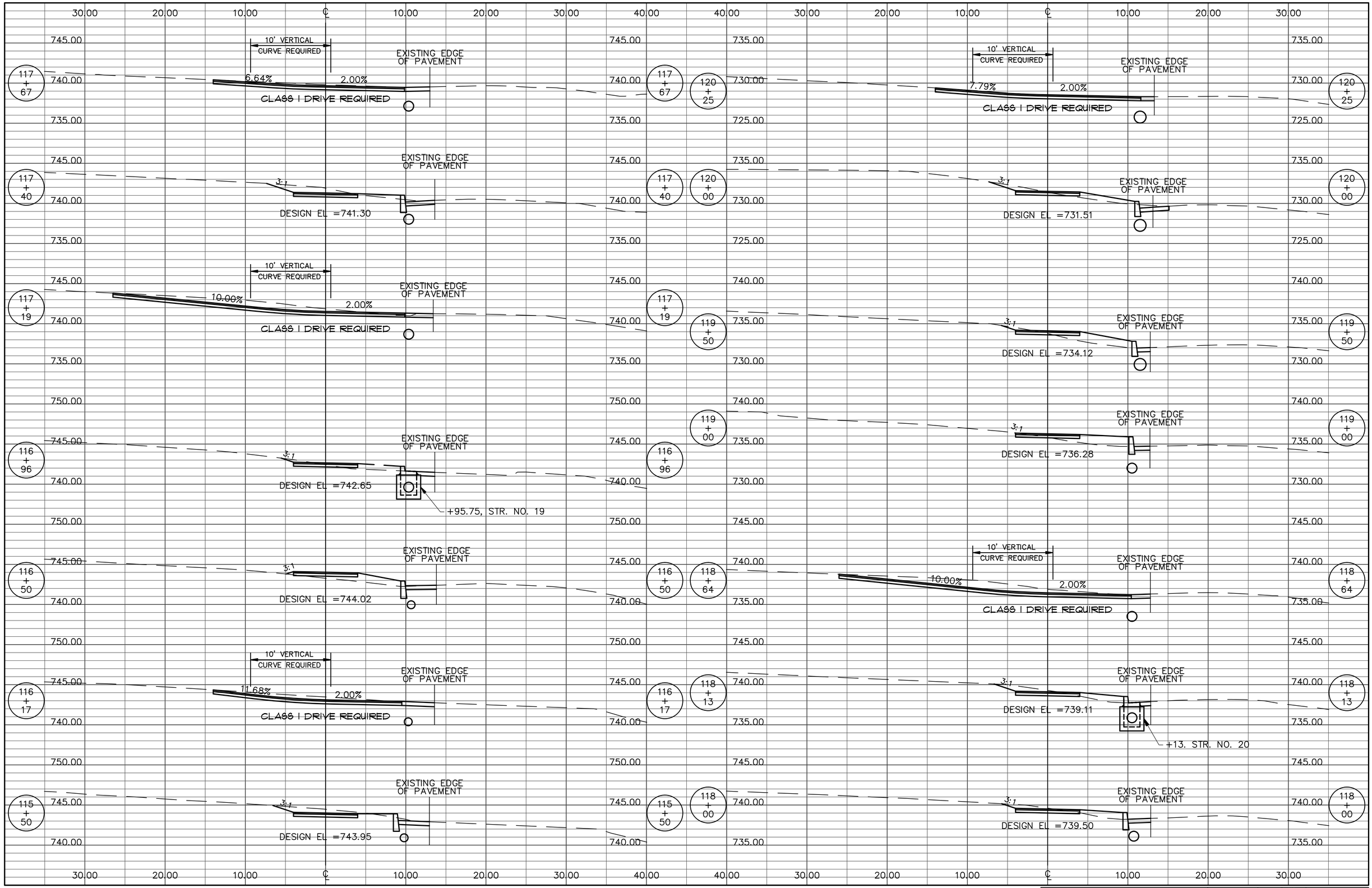
PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	9	12	LINE W



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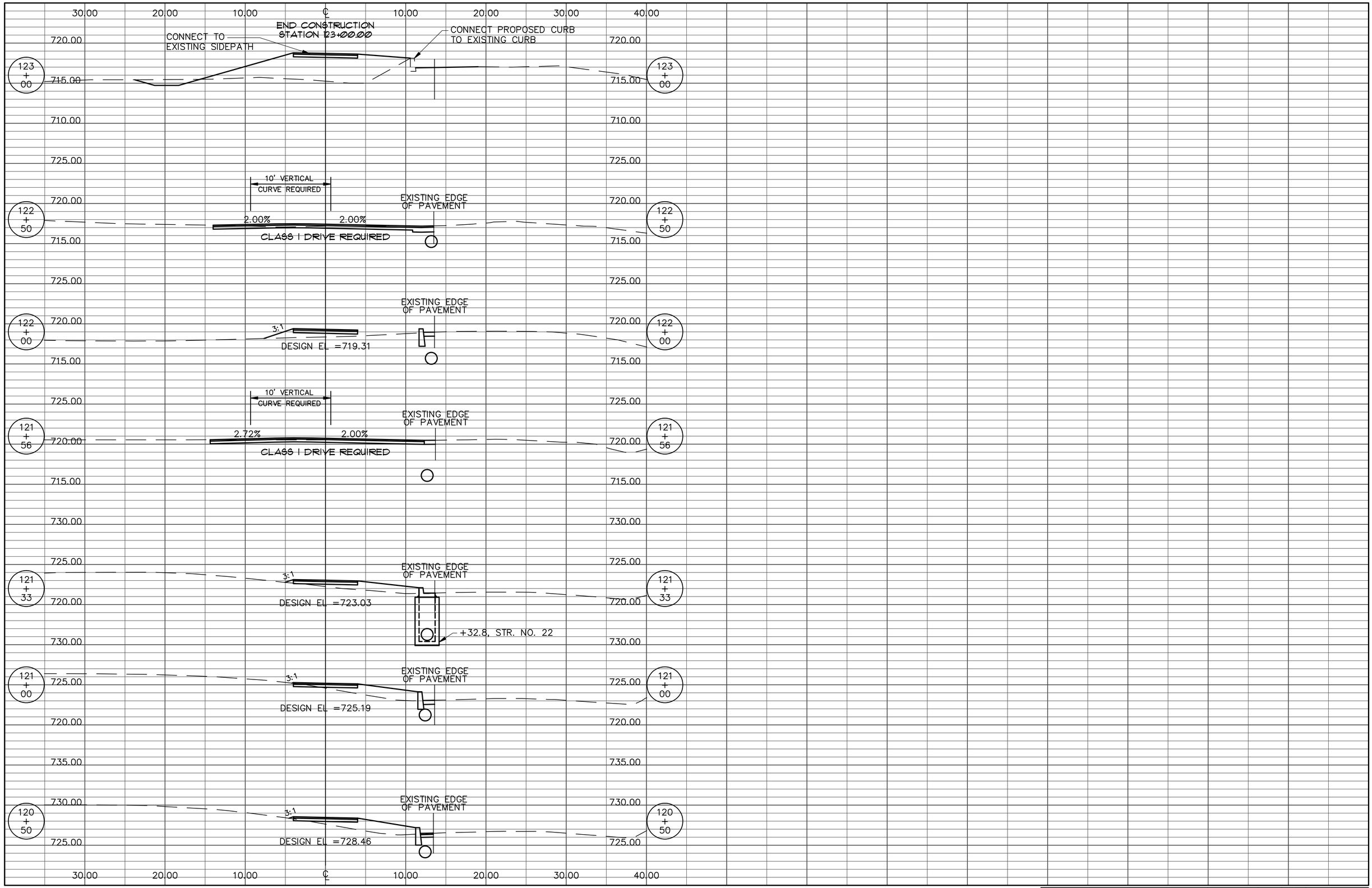
PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	10	12	LINE W



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PROJECT NAME	PROJECT NO.	SHEET	TOTAL SHEETS	REFERENCE
COUNTRY CLUB DRIVE SIDEPATH PHASE III	400269	11	12	LINE W

PRACTICE 3.54
STRAW BALE DROP INLET PROTECTION

PURPOSE

To capture sediment at the inlet to a storm drain, allowing full use of the drain system during the construction period.

(NOTE: This practice not recommended for paved surfaces due to lack of an anchoring system.)

REQUIREMENTS

Contributing drainage area: 1 acre maximum.
Effective life: Less than 3 months.
Capacity: Runoff from a 2-yr. frequency, 24-hr. duration storm event entering a storm drain without bypass flow.
Approach: Pool area flat, with sediment storage of 945 cu.ft./acre disturbed.
Bale dimensions: Approximately 14 in. x 18 in. x 36 in.
Height of bales above inlet: 14 in. (i.e., 18 in. bales entrenched 4 in.).
Anchoring: Two 36-in. long (minimum) steel rebars or 2 x 2-in. hardwood stakes driven through each bale.

INSTALLATION (Exhibit 3.54-B)

1. To reduce bypass flow, ensure that the top of the bales will be at least 6 in. below ground elevation on the downslope side of the inlet. This may require constructing below the inlet a temporary dike OR using the straw bale drop inlet protection in conjunction with an excavated drop inlet protection (Practice 3.51).
2. Excavate a trench at least 4 in. deep and a bales width around the inlet.
3. Place the bales lengthwise in the trench so the bindings are oriented around the sides, rather than top and bottom, to minimize deterioration of the bindings.
4. Allow the bales to overlap at the corners, and abut them tightly against eachother.
5. Anchor the bales by driving two 36-in. long steel rebars of 2x2-in. hardwood stakes through each bale until nearly flush at the top. Drive the first stake at an angle towards the previously laid bale to force the bales together.
6. Chink (tightly wedge) straw into any gaps between gales to prevent sediment-laden water from flowing directly into the inlet.
7. Backfill and compact the excavated soil 4 in. high against the outside of the bales.

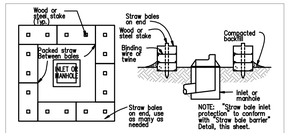


Exhibit 3.54-B. Plan and section view of properly installed bale drop inlet protection.

INSTALLATION

Flow undercutting the bales--because the bales were not entrenched and backfilled.
Bales dislodged--because the bales were not securely anchored.
Flow bypassing the inlet--because the dike was not maintained or was too low.
Sediment not removed from pool--results in inadequate storage volume for the next storm event.
Land slope at inlet--results in high flow velocity, poor trapping efficiency, inadequate storage volume; to correct, excavate the sediment storage area.
Bales falling apart--because they were laid with the bindings funning top and bottom rather than around the sides or were utilized beyond their 3-mo. effective life.

PRACTICE 3.61-B
GRAVEL CURB INLET PROTECTION

REQUIREMENTS (Exhibit 3.61-B)

Contributing drainage area: 1 acre maximum.
Capacity: Runoff from a 2-yr. frequency, 24-hr. duration storm event entering the storm drain without bypass flow.
Location: At curb inlets where ponding is not likely to cause inconvenience or damage.
Gravel: 1-2 in. diameter (INDOT CA No. 2)
Wire mesh: Chicken wire or hardware cloth with 1/2-in. openings.
Geotextile fabric (optional): For Filtration.

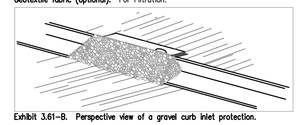


Exhibit 3.61-B. Perspective view of a gravel curb inlet protection.

INSTALLATION (Exhibit 3.61-B)

1. Install gravel curb inlet protections as soon as the streets are paved in a new development situation or before land-disturbing activities in stabilized areas.
2. Place wire mesh over the curb inlet opening and/or grate so it extends at at least 12 in. beyond both top and bottom of the opening/grate.
3. Install geotextile fabric over the wire mesh for additional filtration (optional).
4. Pile gravel over the wire mesh to anchor it against the curb, covering the inlet opening completely.

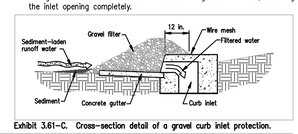


Exhibit 3.61-C. Cross-section detail of a gravel curb inlet protection.

MAINTENANCE

* After each storm event, remove sediment and replace the gravel; replace the geotextile filter fabric if used.
* Periodically remove sediment and tracked-on soil from the street (but not by flushing with water) to reduce the sediment load on the curb inlet practice.
* Inspect periodically, and repair damage caused by vehicles.
* When the contributing drainage area has been stabilized, remove the gravel, wire mesh, geotextile fabric, and any sediment, and dispose of them properly.

PRACTICE 3.01
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD

PURPOSE

* To provide a stable entrance/exit condition from the construction site.
* To keep mud and sediment off public roads.

REQUIREMENTS (Exhibit 3.01-B)

Material: 2-3 in. washed stone (INDOT CA No. 2) over a stable foundation.
Thickness: 6 in. minimum
Width: 12 ft. minimum or full width of entrance/exit roadway, whichever is greater.
Length: 50 ft. minimum. The length can be shorter for small sites such as for an individual home.
Washing facility (optional): Level area with 3 in. washed stone minimum or a commercial rack, and waste water diverted to a sediment trap or basin (Practice 3.72).
Geotextile fabric underliner: May be used under wet conditions or for soils within a high seasonal water table to provide greater bearing strength.

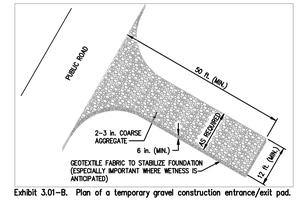


Exhibit 3.01-B. Plan of a temporary gravel construction entrance/exit pad.

INSTALLATION (Exhibit 3.01-C)

1. Avoid locating on steep slopes or at curves in public roads.
2. Remove all vegetation and other objectionable material from the foundation area, and grade and crown for positive drainage.
3. If slope towards the road exceeds 2%, construct a 6-8 in.-high water bar (ridge) with 3:1 side slopes across the foundation area about 15 ft. from the entrance to divert runoff away from the road (Practice 3.24) (see Exhibit 3.01-C).
4. Install pipe under the pad if needed to maintain proper public road drainage.
5. If wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
6. Place stone to dimensions and grade shown in the erosion/sediment control plan, leaving the surface smooth and sloped for drainage.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin.

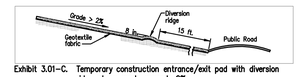


Exhibit 3.01-C. Temporary construction entrance/exit pad with diversion ridge where grade exceeds 2%.

MAINTENANCE

* Inspect entrance pad and sediment disposal area weekly and after storm events or heavy use.
* Reshape pad as needed for drainage and runoff control.
* Top dress with clean stone as needed.
* Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used if the water is conveyed into a sediment trap or basin.
* Repair any broken road pavement immediately.

PRACTICE 3.74
SILT FENCE (SEDIMENT FENCE)

PURPOSE

To retain sediment from small, sloping disturbed areas by reducing the velocity of sheet flow.

(NOTE: Silt fence captures sediment by ponding water to allow deposition, not by filtration. Although the practice usually works best in conjunction with temporary basins, traps, or diversions, it can be sufficiently effective to be used alone. A silt fence is not recommended for use as a diversion; nor is it to be used across a stream, channel or anywhere that concentrated flow is anticipated.)

REQUIREMENTS (Exhibit 3.74-B and C)

Drainage Area: Limited to 1/4 acre per 100 ft. of fence; further restricted by slope steepness (see Exhibit 3.74-B).
Location: Fence nearly level, approximately following the land contour, and at least 10 ft. from toe of slope to provide a broad, shallow sediment pool.
Trench: 8 in. minimum depth, flat-bottom or v-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.
Support posts: 2 x 2-in. hardwood posts (if used) or steel fence posts set at least 1 ft. deep.* (Steel posts should projections for fastening fabric.)
Spacing of posts: 8 ft. maximum if fence supported by wire, 6 ft. for extra-strength fabric without wire backing.
Fence height: High enough so depth of impounded water does not exceed 1 1/2 ft. at any point along fence line.
Support wire (optional): 14 gauge, 6 in. wire fence (needed if using standard-strength fabric).

Exhibit 3.74-B. Maximum Land Slope and Distance for Which a Silt Fence Is Applicable.

Land slope	Max. distance above fence
Less than 2%	100 ft.
2 to 5%	75 ft.
5 to 10%	50 ft.
10 to 20%	25 ft.
More than 20%	15 ft.

Fence fabric: Woven or non-woven geotextile fabric with specified filtering efficiency and tensile strength (see Exhibit 3.74-C) and containing UV inhibitors and stabilizers to ensure 6-mo. minimum life at temperatures 0°-120°F.

* Some commercial silt fences come ready to install, with support posts attached and requiring now wire support.

Exhibit 3.74-C. Specifications Minimums for Silt Fence Fabric.

Physical Property	Woven Fabric	Non-woven fabric
Filtering efficiency	85%	85%
Tensile strength at 20% elongation:		
Standard strength	30lbs./linear in.	50lbs./linear in.
Extra strength	50lbs./linear in.	70lbs./linear in.
Slurry flow rate	0.3 gal./min./sq.ft.	4.5 gal./min./sq.ft.
Water flow rate	15 gal. /min./sq.ft.	220 gal./min./sq.ft.
UV resistance	70%	85%

Outlet (optional): To allow for safe storm flow bypass without overtopping fence. Placed along fence line to limit water depth to 1 1/2 ft. maximum; crest--1 ft. high maximum; weir width--4 ft. maximum; splash pad--5 ft. wide, 3 ft. long, 1 ft. thick minimum.

INSTALLATION

SITE PREPARATION:

1. Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area.
2. Provide access to the area if sediment cleanout will be needed.

OUTLET CONSTRUCTION (OPTIONAL)

1. Determine the appropriate location for a reinforced, stabilized bypass flow outlet.
2. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line.
3. Locate the outlet weir support posts no more than 4 ft. apart, and install a horizontal brace between them. (Wier height should be no more than 1 ft. and water depth no more than 1 1/2 ft. anywhere else along the fence.)
4. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep, 5 ft. wide and 5 ft. long on level grade
5. Fill the excavated foundation with INDOT CA No. 1 stone, being careful that the finished surface blends with the surrounding area, allowing no overfall.
6. Stabilize the area around the pad.

OUTLET CONSTRUCTION (OPTIONAL)

1. Along the entire intended fence line, dig and 8 in. deep flat-bottomed or V-shaped trench.
2. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench as described in step 6.)
3. Fasten support wire fence to the upslope side of the posts, extending it 8 in. into the trench.
4. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line.
5. If a joint is necessary, nail the overlap to the nearest post with a lath.
6. Place the bottom 1 ft. of fabric in the 8 in. deep trench, extending the remaining 4 in. toward the upslope side.
7. Backfill the trench with compacted earth or gravel.

NOTE: If using a pre-packed commercial silt fence rather than constructing one, follow the manufacturer's installation instructions.

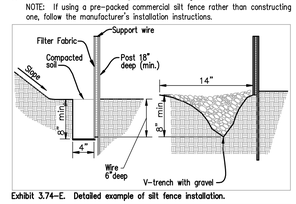
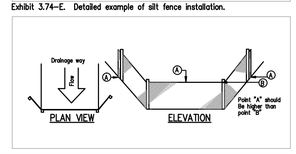


Exhibit 3.74-E. Detailed example of silt fence installation.



MAINTENANCE

* Inspect the silt fence periodically and after each storm event.
* If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
* Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
* Take care to avoid undermining the fence during clean out.
* After the contributing area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade, and stabilize.

EROSION CONTROL NOTES:

1. Prior to any earth moving place SILTATION FENCE along the down stream side of all grading activity.
2. Remove vegetation in areas to be disturbed only.
3. Strip top soil from all areas to be disturbed by construction AND stock pile at locations above silt FENCE. Seed with TEMPORARY seed mixture type T, immediately.
4. Maintain silt FENCE during construction AND keep clear of debris.
5. Perform construction activities as shown on the plans. Do not disturb turf areas outside of construction limits so that turf acts as a vegetative filter strip.
6. All erosion control structures shall be kept in working order AND inspected upon completion of every rain event. Add additional measures when necessary.
7. Upon completion of construction of all improvements redistribute top soil to all PROPOSED grassed areas.
8. Mulch seed all disturbed areas immediately upon completion of all earthmoving AND underground utility work in accordance with INDOT SS-621 Seed Mixture type U.
9. Fertilize AND water seeded areas until mature turf is established.
10. Remove all TEMPORARY erosion control measures upon the establishment of the turf.

NOTE: CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

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Country Club Drive
Bloomington Indiana

title: EROSION CONTROL DETAILS

Sheet No: 12 OF 12
project no.: 400269