

TOWN OF MERIDIAN HILLS PROJECT NO. 21-TOMH-02 75TH STREET SIDEWALK PHASE 1 SPRINGMILL TO MERIDIAN

TOWN OF MERIDIAN HILLS COUNCIL MEMBERS

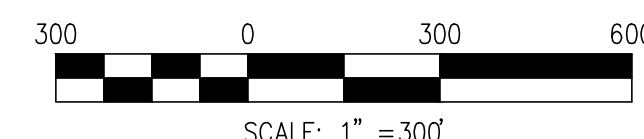
WALTER FREIHOFFER
COLLEEN FIELD
ZACH GORDON
GREG JACOBY
COLE MARR



BEGIN PROJECT
STA. 9+94 "P-L"

LOCATION MAP

SCALE: 1"=300'



END PROJECT
STA. 30+60 "P-L"

PROJECT LETTING DATE: 1/10/2022



OWNER

TOWN OF MERIDIAN HILLS
1300 E. 86TH STREET
SUITE 36A BOX 40437
INDIANAPOLIS, IN, 46240

TOPOGRAPHIC SURVEY BY:

CROSSROAD ENGINEERS, P.C.
115 N 17TH AVE.
BEECH GROVE, IN 46107
(317)780-1555
www.crossroadengineers.com

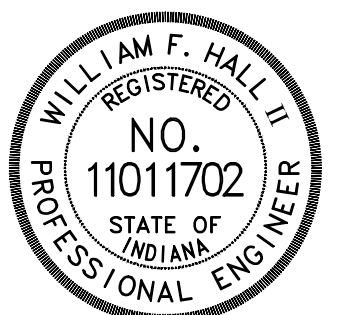


Know what's below.
Call before you dig.

PLANS PREPARED BY:



TRANSPORTATION &
DEVELOPMENT CONSULTANTS
115 N 17TH AVE.
BEECH GROVE, IN 46107
(317) 780-1555
CROSSROADENGINEERS.COM



William F. Hall II 11/19/21
CERTIFIED BY: DATE

DESIGNED: C.M.	CHECKED: W.F.H.
DRAWN: T.B.	CHECKED: W.F.H.

CONSTRUCTION DOCUMENTS

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS.

INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS
TRANSPORTATION STANDARDS MANUAL TO
CONTROL FOR HYBRID DITCH AND HMA PATCHING.

DIRECTORY PATH : R:\Active\Meridian Hills\Site\StreetPath - Springmill To Meridian\Design\CAD\Plans
FILENAME : INDEX.dwg
DATE/USER : 10/8/2021 10:33 AM / Tbenett

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SEWER
CITIZENS ENERGY GROUP
2150 DR. MARTIN LUTHER KING JR. ST.
INDIANAPOLIS, IN 46202
PHONE: (317) 429-3961
CONTACT: ROBERT MASBAUM
EMAIL: bmasbaum@citizensenergygroup.com

GAS
CITIZENS ENERGY GROUP
2150 DR. MARTIN LUTHER KING JR. ST.
INDIANAPOLIS, IN 46202
PHONE: (317) 927-4684
CONTACT: RICHARD MILLER
EMAIL: rmiller@citizensenergygroup.com

CABLE
COMCAST
5330 E. 65TH ST.
PHONE: (317) 516-2237
CONTACT: WILLIAM MORRIS
EMAIL: william_morris@cable.comcast.com

CROWN CASTLE
1500 CORPORATE DR
CANONSBURG, PA 15317
PHONE: (724) 416-2449
CONTACT: NICK BELINSKY
EMAIL: fiber.dig@crowncastle.com

WATER
CITIZENS ENERGY GROUP
2150 DR. MARTIN LUTHER KING JR. ST.
INDIANAPOLIS, IN 46202
PHONE: (317) 605-7325
CONTACT: DARREN WILLIAMS
EMAIL: dwilliams@citizensenergygroup.com

CITY OF INDIANAPOLIS - DPW
1200 S. MADISON AVE., STE. 200
INDIANAPOLIS, IN 46202
PHONE: (317) 327-2302
CONTACT: THERESA MENDOZA
EMAIL: theresa.mendoza@indy.gov

TELEPHONE
AT&T
240 N. MERIDIAN ST.
PHONE: (317) 610-5437
CONTACT: BRIAN PETERS
EMAIL: bp2673@att.com

ELECTRIC
INDIANAPOLIS POWER & LIGHT CO.
1230 W. MORRIS ST.
INDIANAPOLIS, IN 46202
PHONE: (317) 261-8085
CONTACT: BRENTON VOGT
EMAIL: brenton.vogt@aes.com

GENERAL NOTES

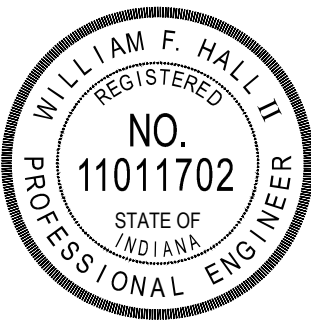
- * The exact location of all utilities shall be field verified by the contractor prior to starting any work.
- * Sheet signs and square posts shall not be ordered until the exact number of signs and length of each post have been determined upon field investigation.

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX SHEET AND GENERAL NOTES
3	TYPICAL CROSS SECTIONS
4-5	MAINTENANCE OF TRAFFIC
6-9	ROAD PLAN AND PROFILES
10-12	RAMP DETAILS
13	MISCELLANEOUS DETAILS
14-16	SWPP SHEETS
17-18	EROSION CONTROL PLANS
19	MISCELLANEOUS TABLES
XS1-XS18	CROSS SECTIONS

REVISIONS

SHEET NO	DATE	REVISED

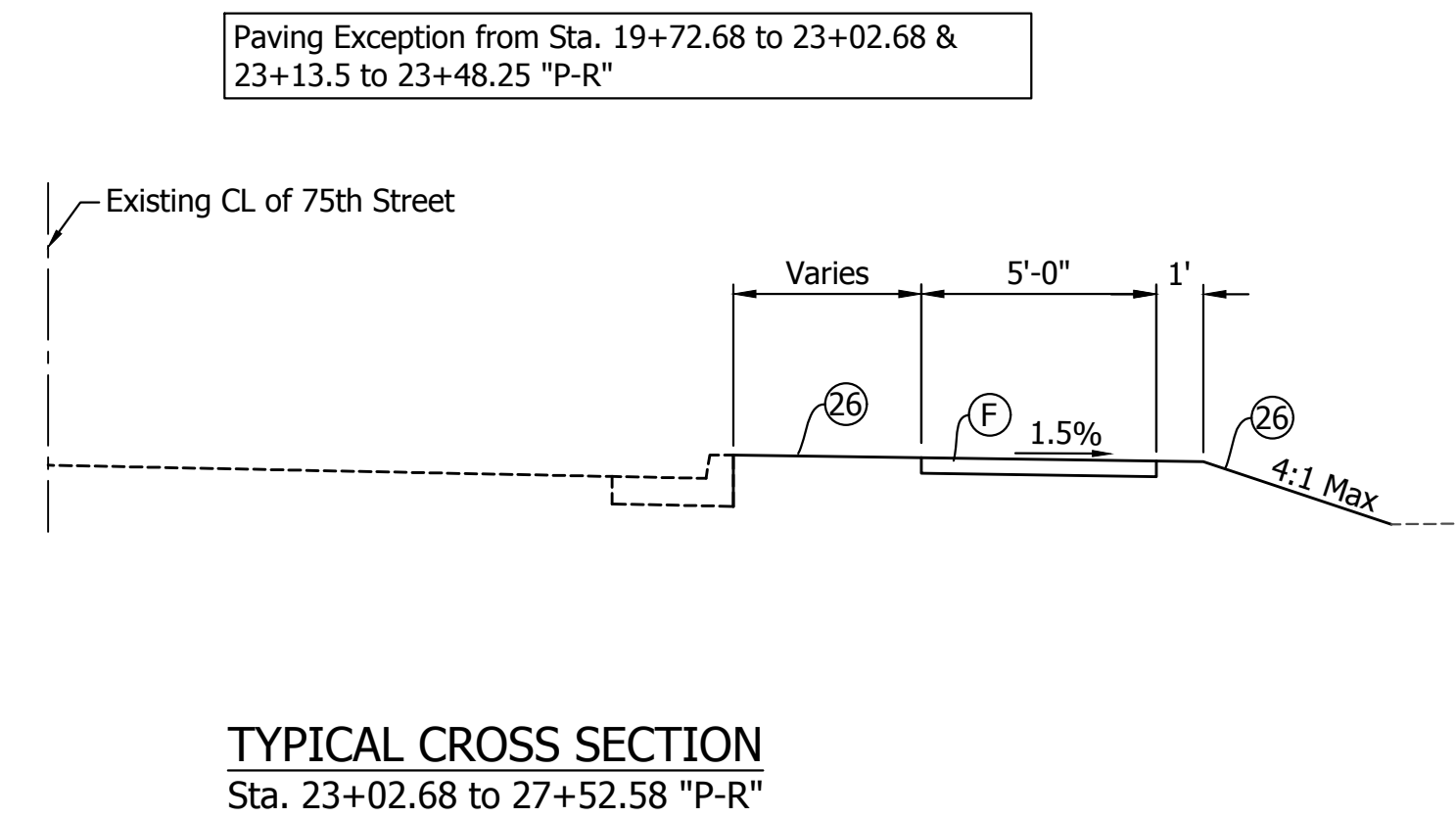


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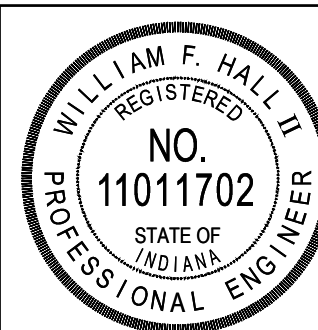
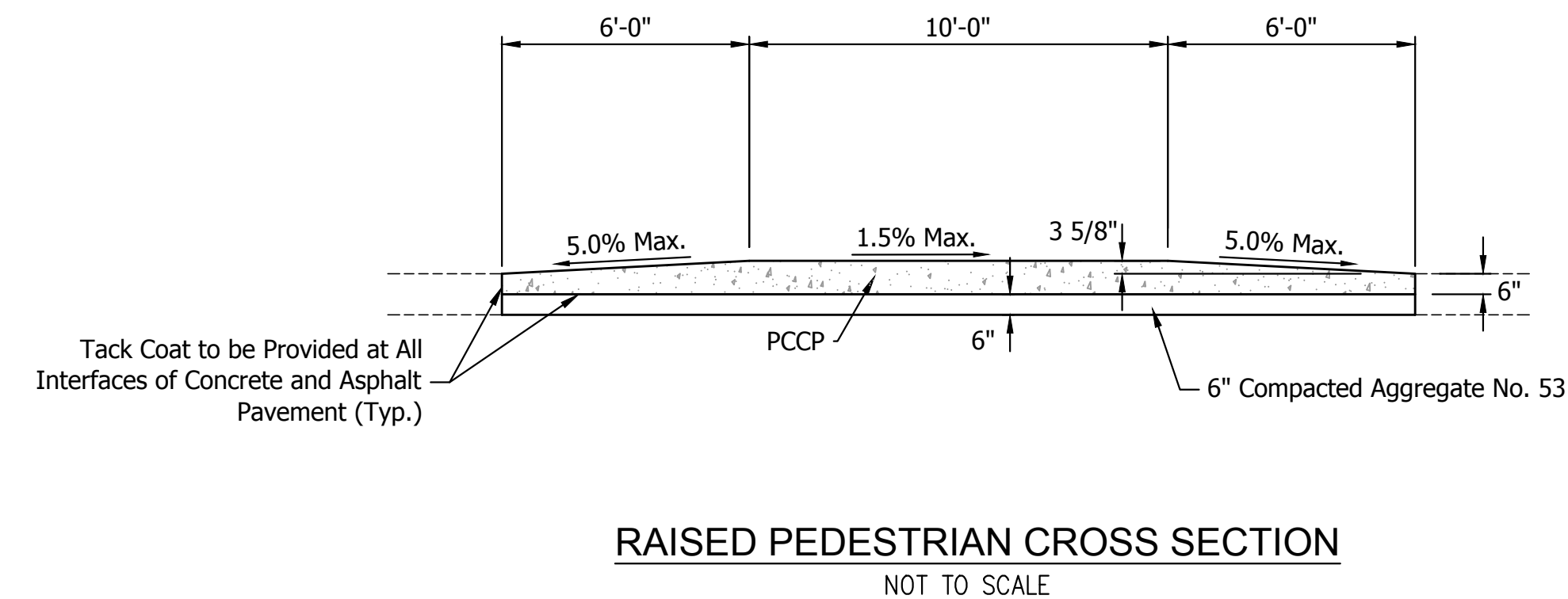
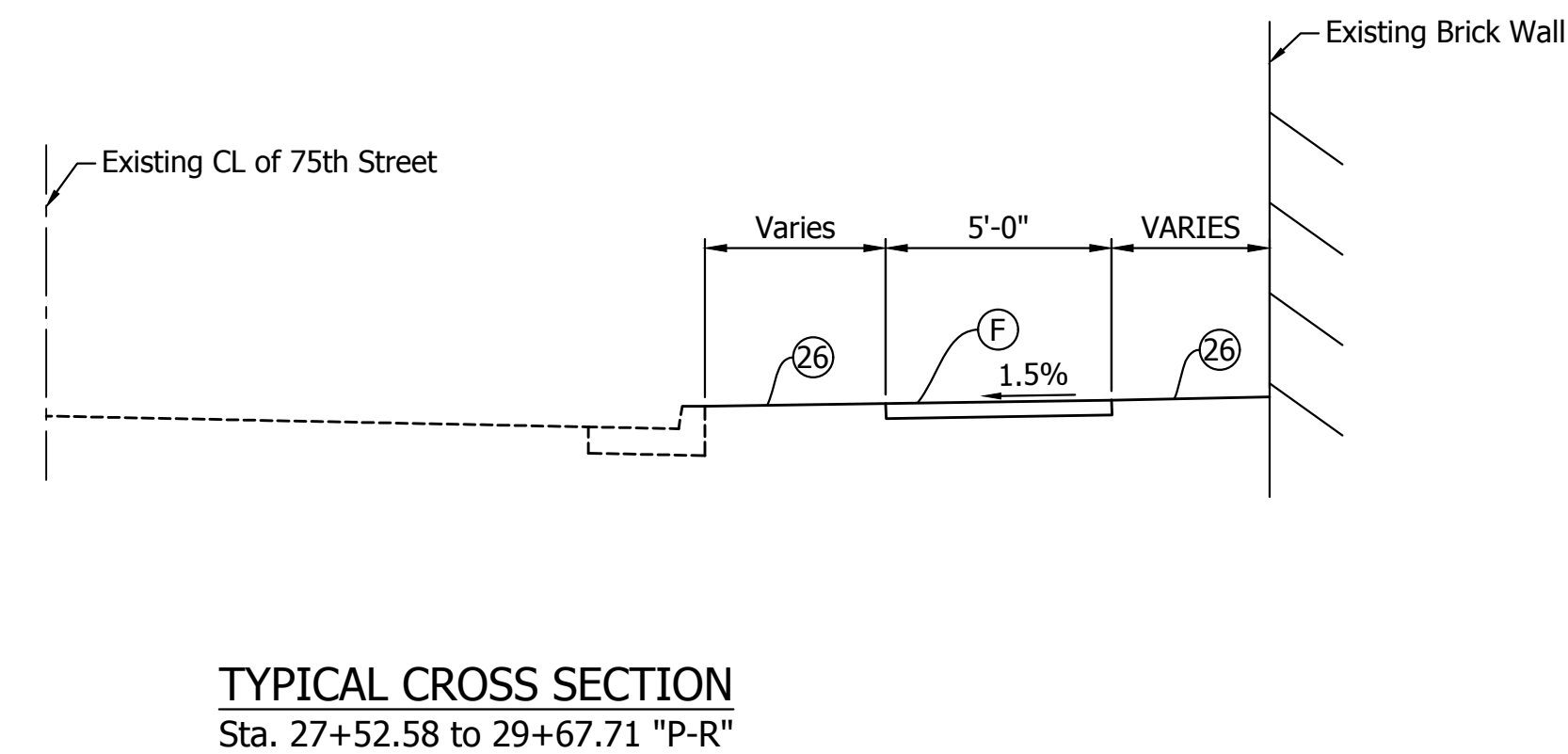
TOWN OF MERIDIAN HILLS

INDEX

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
	2 of 19
CONTRACT	PROJECT
-	-



- ## LEGEND
- | | |
|------|--|
| (F) | Concrete Sidewalk, 4" |
| (C) | PCCP for Approaches, 6" on Dense Graded Subbase, 6" |
| (K) | Full Depth Patching
165 #/Syd HMA Surface Type B on
660 #/Syd HMA Base Type B on
Structure Backfill (as needed) |
| (23) | Hybrid Ditch with Mulched Seeding, U |
| (24) | Hybrid Ditch Engineered Soil (See Detail Sheet 13) |
| (27) | Mulched Seeding, U |



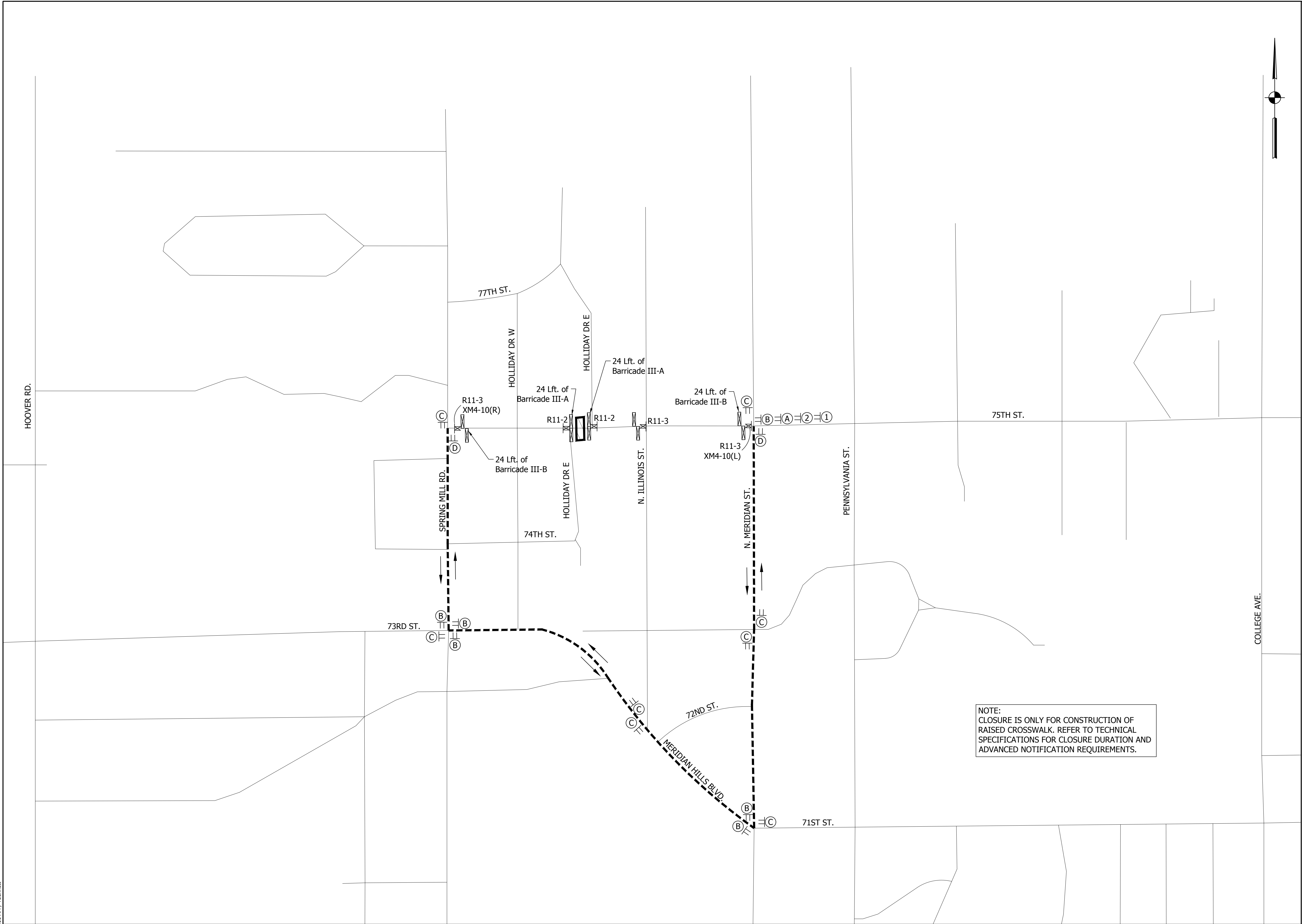
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	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE		BRIDGE FILE	
1/4" = 1'-0"			
VERTICAL SCALE		DESIGNATION	
N/A		-	
SURVEY BOOK		SHEETS	
		3	19
CONTRACT		PROJECT	
-		-	

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LEGEND

- CONSTRUCTION AREA
- ALTERNATE/DETOUR ROUTE
- TYPICAL CONSTRUCTION SIGN STANDARD
- ROAD CLOSURE SIGN ASSEMBLY
- BARRICADE, TYPE III-B OR III-A

DETOUR ROUTE MARKER ASSEMBLY DETAILS

(A)
DETOUR XM4-8
75TH. STREET
M5-1(R/S)
OR
M5-1(L/S)

(B)
DETOUR XM4-8
75TH STREET
M6-1S
OR
M6-1S

(C)
DETOUR XM4-8
75TH STREET
M6-3

(D)
END M4-6
DETOUR M4-8
75TH STREET
M5-1(R/S)
OR
M5-1(L/S)

CONSTRUCTION SIGNS, TYPE "A"

① XW20-3
36" x 36"
ROAD CLOSED AHEAD

② XW20-2
36" x 36"
DETOUR AHEAD

CONSTRUCTION SIGNS, TYPE "B"

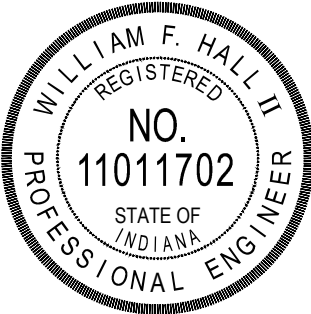
DETOUR
XM4-10 (L)
48" x 18"

DETOUR
XM4-10 (R)
48" x 18"

ROAD CLOSURE SIGN ASSEMBLIES

ROAD CLOSED AHEAD
LOCAL TRAFFIC ONLY
R11-3
5' x 2'-6"

ROAD CLOSED
R11-2
4' x 2'-6"

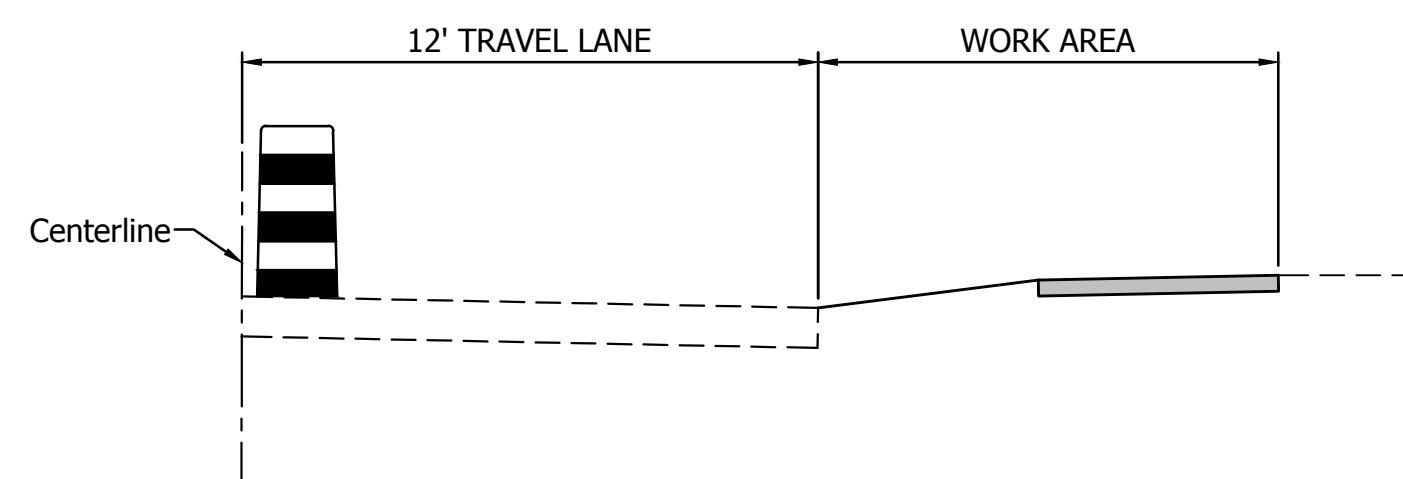
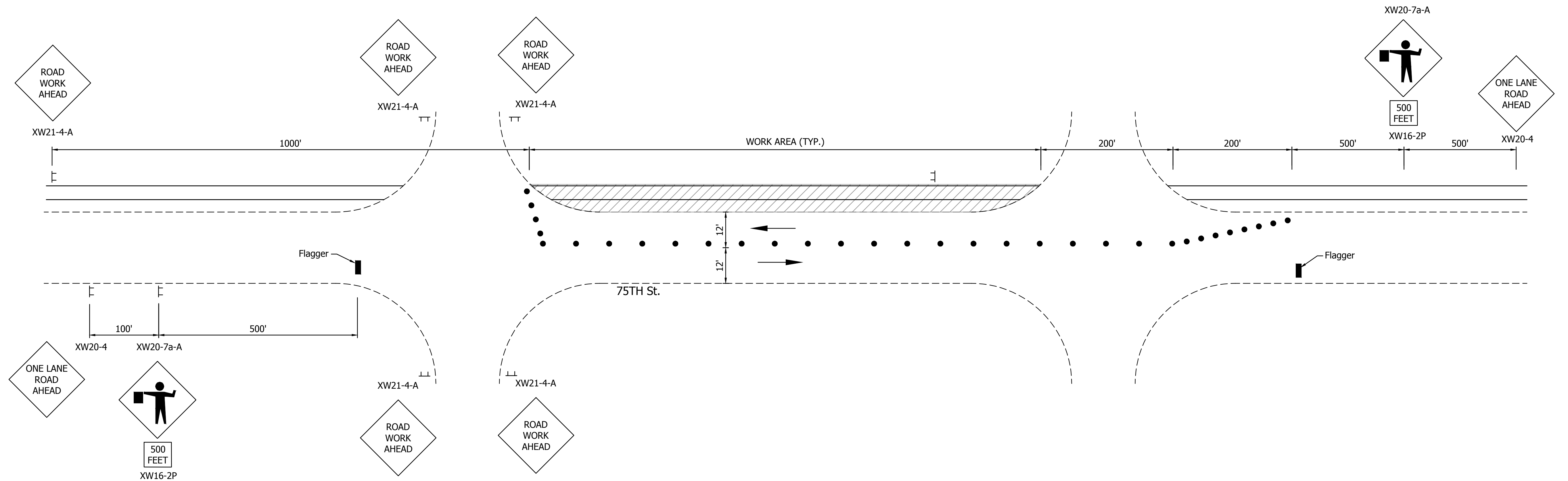


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DESIGN ENGINEER
11/19/21
DATE

DESIGNED: C.M. DRAWN: T.B.
CHECKED: W.F.H. CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS		HORIZONTAL SCALE		BRIDGE FILE	
MAINTENANCE OF TRAFFIC DETOUR ROUTE		NTS		DESIGNATION	
		VERTICAL SCALE		-	
		N/A			
		SURVEY BOOK		SHEETS	
				4 of 19	
		CONTRACT		PROJECT	

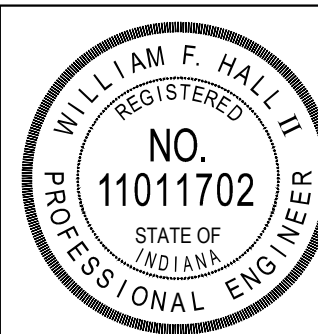
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TYPICAL CONSTRUCTION SECTION

NOTES:

- SIGNING TO BE PLACED PER APPLICABLE INDOT STANDARD DRAWINGS.
- SPACING OF CHANNELIZING DEVICES SHALL BE PLACED PER INDOT STANDARD DRAWINGS 801-TCLC-08 AND 801-TCLG-01.
- M.O.T. DESIGN SPEED FOR SHOULDER CLOSURE IS 30 MPH.
- TYPE A LIGHTS REQUIRED ON ALL CONSTRUCTION SIGNS.
- CONTRACTOR TO PROVIDE M.O.T. PLAN PER PHASING AND INDOT SPECIFICATIONS AND STANDARD DRAWINGS.
- WORK AREA / LANE RESTRICTION LIMITS TO BE LIMITED TO ONE BLOCK AT A TIME UNLESS OTHERWISE APPROVED BY THE TOWN. REFER TO TECHNICAL SPECIFICATIONS FOR LANE RESTRICTION REQUIREMENTS.
- CHANNELIING DEVICES TO BE PLACED AT EXISTING CURB LINE WHEN LANE RESTRICTIONS ARE NOT IN PLACE.

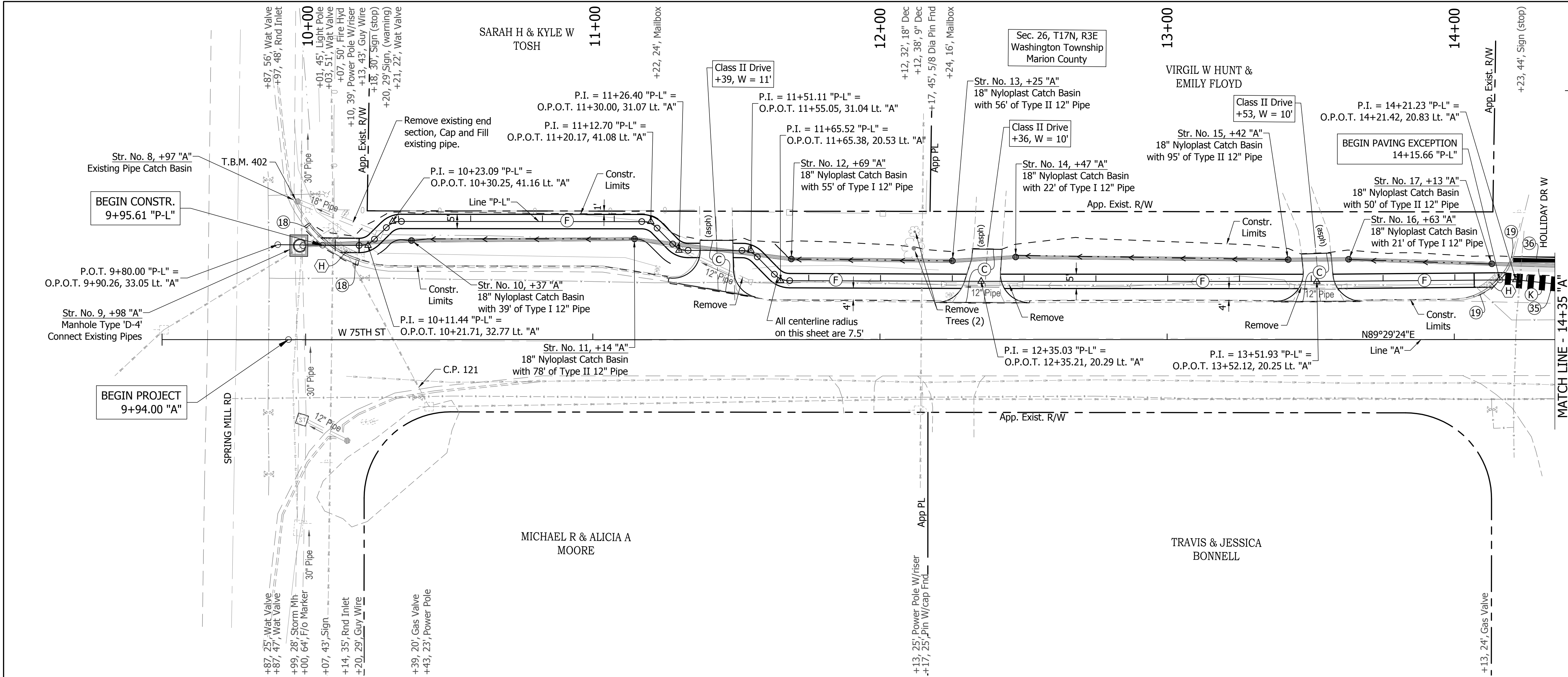


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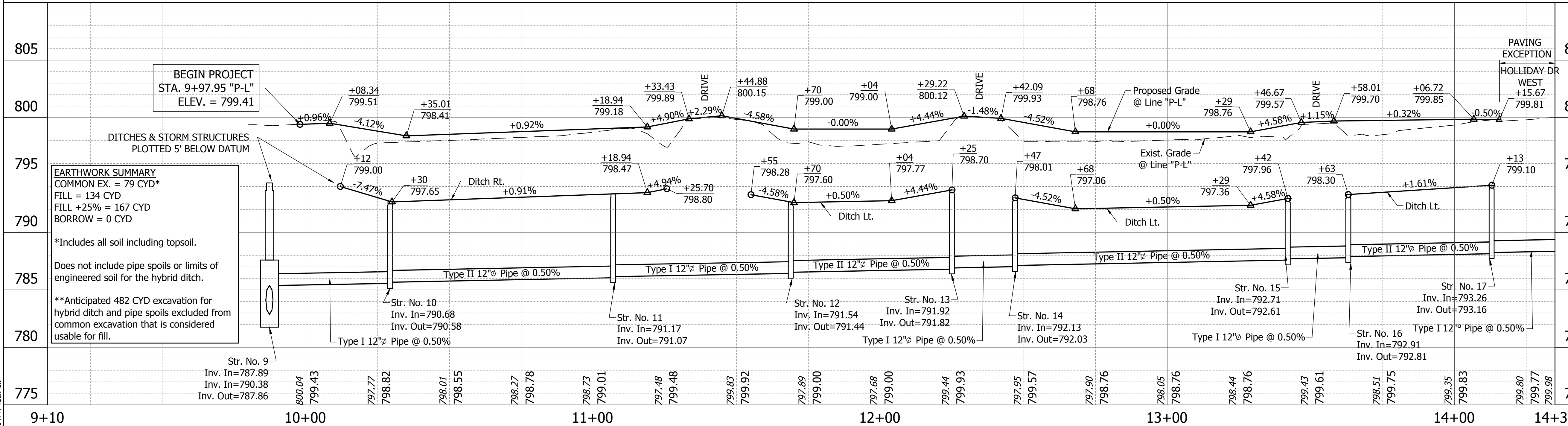
TOWN OF MERIDIAN HILLS

MAINTENANCE OF TRAFFIC

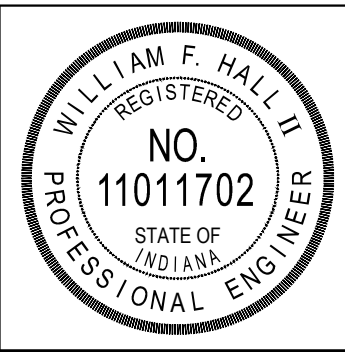
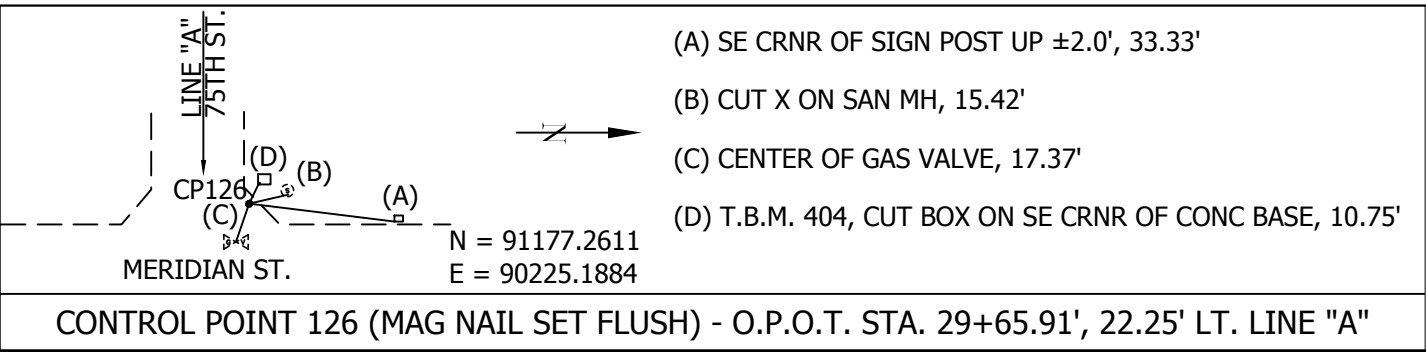
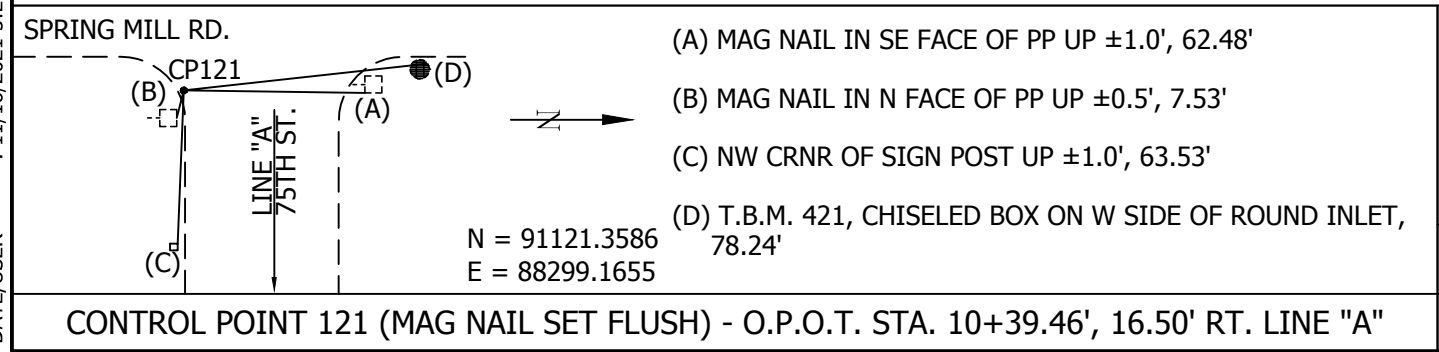
HORIZONTAL SCALE	BRIDGE FILE
NTS	DESIGNATION
VERTICAL SCALE	-
N/A	-
SURVEY BOOK	SHEETS
	5 of 19
CONTRACT	PROJECT
-	-



LEGEND	
EXISTING	
	Storm Inlets
	Storm Manhole
	Sanitary Manhole
	Sanitary Cleanout
	Gas Line
	Gas Valve
	Gas Meter
	Water Line
	Water Valve
	Fire Hydrant
	Water Meter
	Sprinkler
	Irr. Valve
	Electric Line
	Electric Box
	Overhead Utility Line
	Power Pole w/(Riser)
	Light & Power Pole
	Mailbox
	Light & Power Pole w/Riser
	Guy Wire
	Fiber Optic Line
	Telephone Line
	Telephone Riser
	Telephone Manhole
	Cable TV Line
	Cable TV Box
	Utility Manhole
	Wood Fence
	Wire Fence
	Chainlink Fence
	Iron Fence
	Sign
	Flag Pole
	Bush
	Tree Trunk
	Deciduous Tree
	Coniferous Tree
PROPOSED	
	PCCP for Approaches, 6'
	Concrete Sidewalk, 4'
	Curb & Gutter, Concrete
	Curb, Concrete
	Mulched Seeding
	Transverse Marking, Thermoplastic, Solid White, Crosswalk, 24 Inches
	Transverse Marking, Thermoplastic, Solid White, Stop Bar, 24 Inches
	Transverse Marking, Thermoplastic, Pre-formed Plastic, White, Crosswalk, 24 inches (Use on Raised Crosswalk)
	Curb Ramp
	Full Depth Asphalt Patching
(See Typical Sheet for Additional Details)	



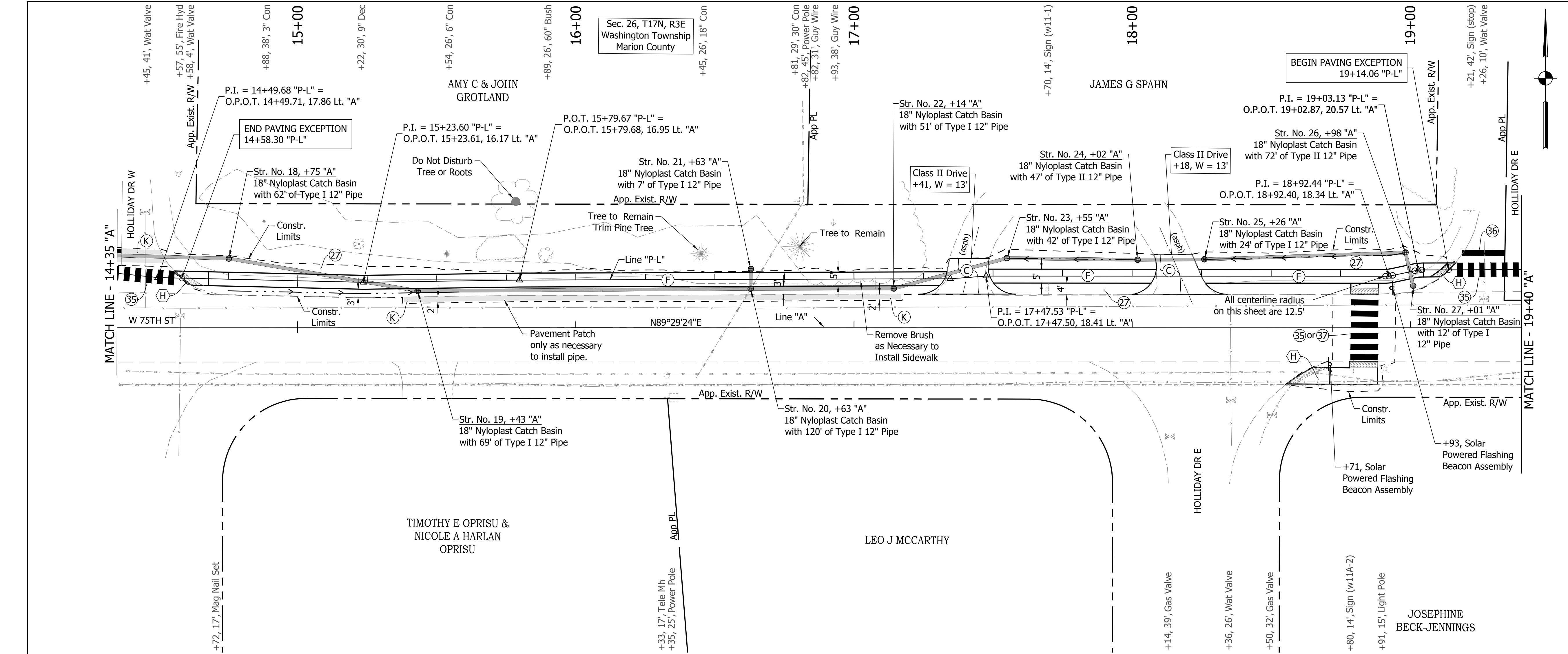
All R/W and Topo from Line "A" Unless Noted Otherwise	
805	TBM #402 CHISELED BOX ON WEST SIDE OF CONCRETE RIM OF ROUND BEEHIVE INLET. Sta. 9+96.46 "A", 48.82' Lt., Elev. = 799.66'
800	TBM #403 CUT X ON NORTH-NORTHWEST BONNET BOLT OF LOWER SET OF BONNET BOLTS OF FIRE HYDRANT. Sta. 19+83.50 "A", 25.88' Lt., Elev. = 799.64'
795	TBM #404 CUT BOX BY SOUTHEAST CORNER OF CONCRETE BASE FOR SIGNAL POLE. Sta. 29+62.88 "A", 32.54' Lt., Elev. = 795.92'
790	ORIGINATING BENCHMARK DESIGNATION - X 245 PID - KA0177 STATE/COUNTY - IN/MARION USGS QUAD - BEECH GROVE (1980)
785	VERT ORDER - FIRST CLASS II
780	DESCRIBED BY COAST AND GEODETIC SURVEY 1947 4.6 MI SE FROM INDIANAPOLIS, ABOUT 4.65 MILES SOUTHEAST ALONG THE NEW YORK CENTRAL RAILROAD FROM THE UNION STATION AT INDIANAPOLIS, AT 35-FOOT CONCRETE BRIDGE NO. 462 OVER LICK CREEK, SET IN THE TOP OF THE NORTHEAST WING WALL, 8 RAILS SOUTHEAST OF MILE POST 105, 4 RAILS NORTHWEST OF A LIGHT SIGNAL, 8.0 FEET NORTHEAST OF THE NORTHEAST RAIL AND 2.5 FEET BELOW THE TRACK.
775	ELEVATION = 799.56 (NAVD 88)



RECOMMENDED FOR APPROVAL	
DESIGNED: C.M.	DRAWN: T.B.
CHECKED: W.F.H.	CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS	
PLAN & PROFILE LINE "A"	

HORIZONTAL SCALE	
1"=20'	
VERTICAL SCALE	
1"=5'	
SURVEY BOOK	
6 of 19	
CONTRACT	
PROJECT	



LEGEND

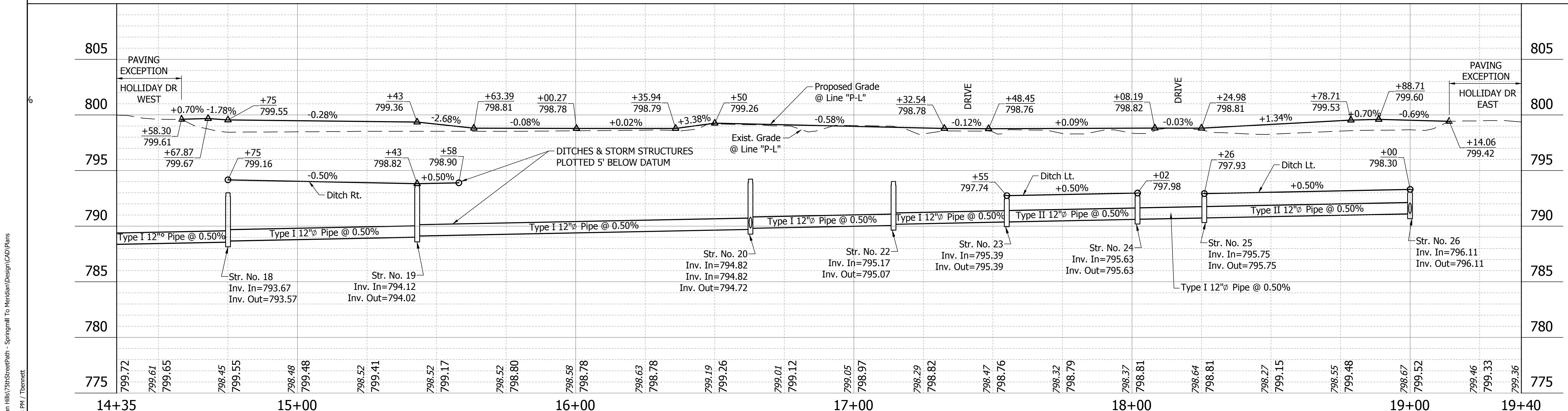
EXISTING

- Storm Inlets
- Storm Manhole
- Sanitary Manhole
- Sanitary Cleanout
- Gas Line
- Gas Valve
- Gas Meter
- Water Line
- Water Valve
- Fire Hydrant
- Water Meter
- Sprinkler
- Ir. Valve
- Electric Line
- Electric Box
- Overhead Utility Line
- Power Pole w/(Riser)
- Light & Power Pole
- Mailbox
- Light & Power Pole w/Riser
- Guy Wire
- Fiber Optic Line
- Telephone Line
- Telephone Riser
- Telephone Manhole
- Cable TV Line
- Cable TV Box
- Utility Manhole
- Wood Fence
- Wire Fence
- Chainlink Fence
- Iron Fence
- Iron Pin
- Sign
- Flag Pole
- Bush
- Tree Trunk
- Deciduous Tree
- Coniferous Tree

PROPOSED

- PCCP for Approaches, 6"
- Concrete Sidewalk, 4"
- Curb & Gutter, Concrete
- Curb, Concrete
- Mulched Seeding
- Transverse Marking, Thermoplastic, Solid White, Crosswalk, 24 Inches
- Transverse Marking, Thermoplastic, Solid White, Stop Bar, 24 Inches
- Transverse Marking, Thermoplastic, Pre-formed Plastic, White, Crosswalk, 24 inches (Use on Raised Crosswalk)
- Curb Ramp
- Full Depth Asphalt Patching

(See Typical Sheet for Additional Details)



All R/W and Topo from Line "A" Unless Noted Otherwise

TBM #402
CHISELED BOX ON WEST SIDE OF CONCRETE RIM OF ROUND BEEHIVE INLET.
Sta. 9+96.46 "A", 48.82' Lt., Elev. = 799.66'

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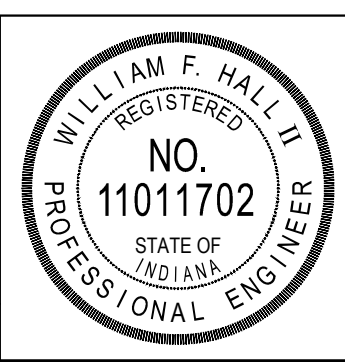
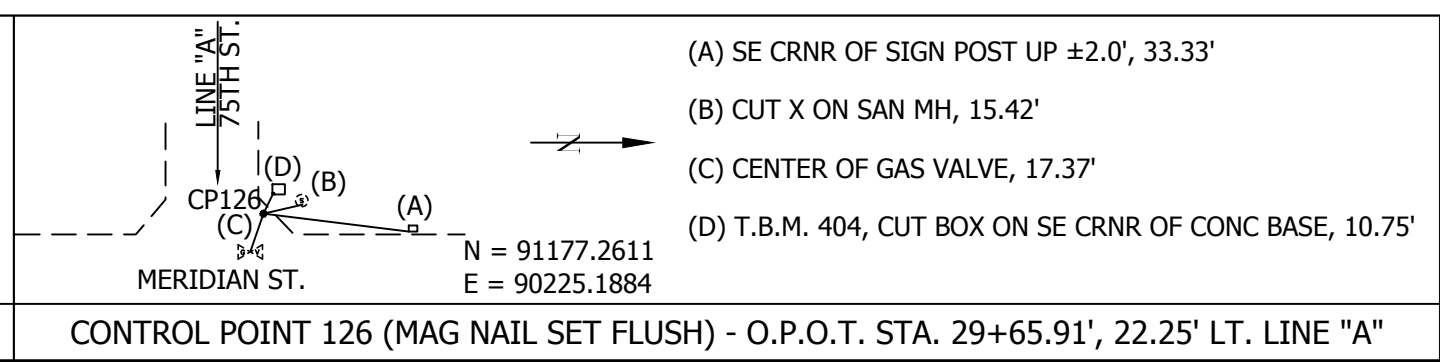
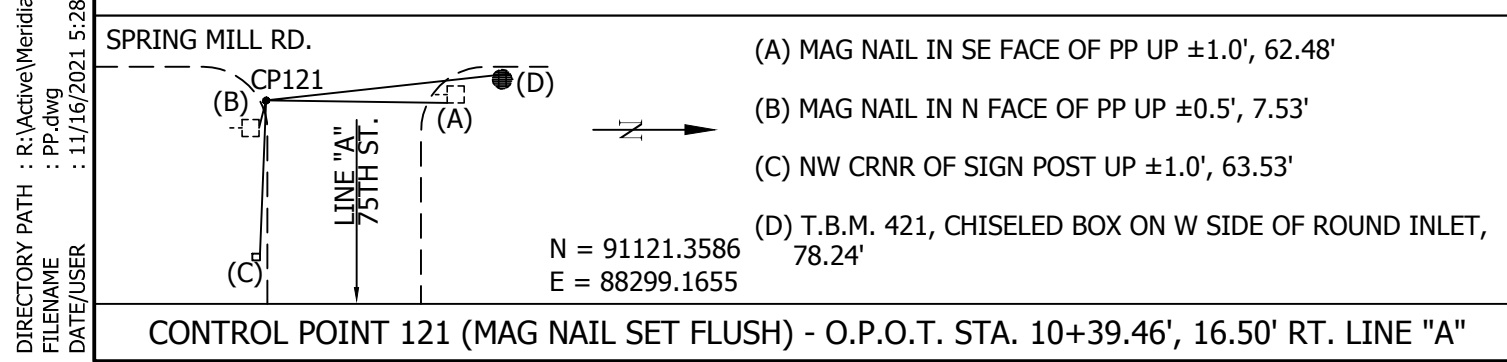
ORIGINATING BENCHMARK

DESIGNATION - X 245
PID - KA0177
STATE/COUNTY - IN/MARION
USGS QUAD - BEECH GROVE (1980)

VERT ORDER - FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1947
4.6 MI SE FROM INDIANAPOLIS. ABOUT 4.65 MILES SOUTHEAST ALONG THE NEW YORK CENTRAL RAILROAD FROM THE UNION STATION AT INDIANAPOLIS, AT 35-FOOT CONCRETE BRIDGE NO. 462 OVER LICK CREEK, SET IN THE TOP OF THE NORTHEAST WING WALL, 8 RAILS SOUTHEAST OF MILE POST 105, 4 RAILS NORTHWEST OF A LIGHT SIGNAL, 8.0 FEET NORTHEAST OF THE NORTHEAST RAIL AND 2.5 FEET BELOW THE TRACK.

ELEVATION = 799.56 (NAVD 88)



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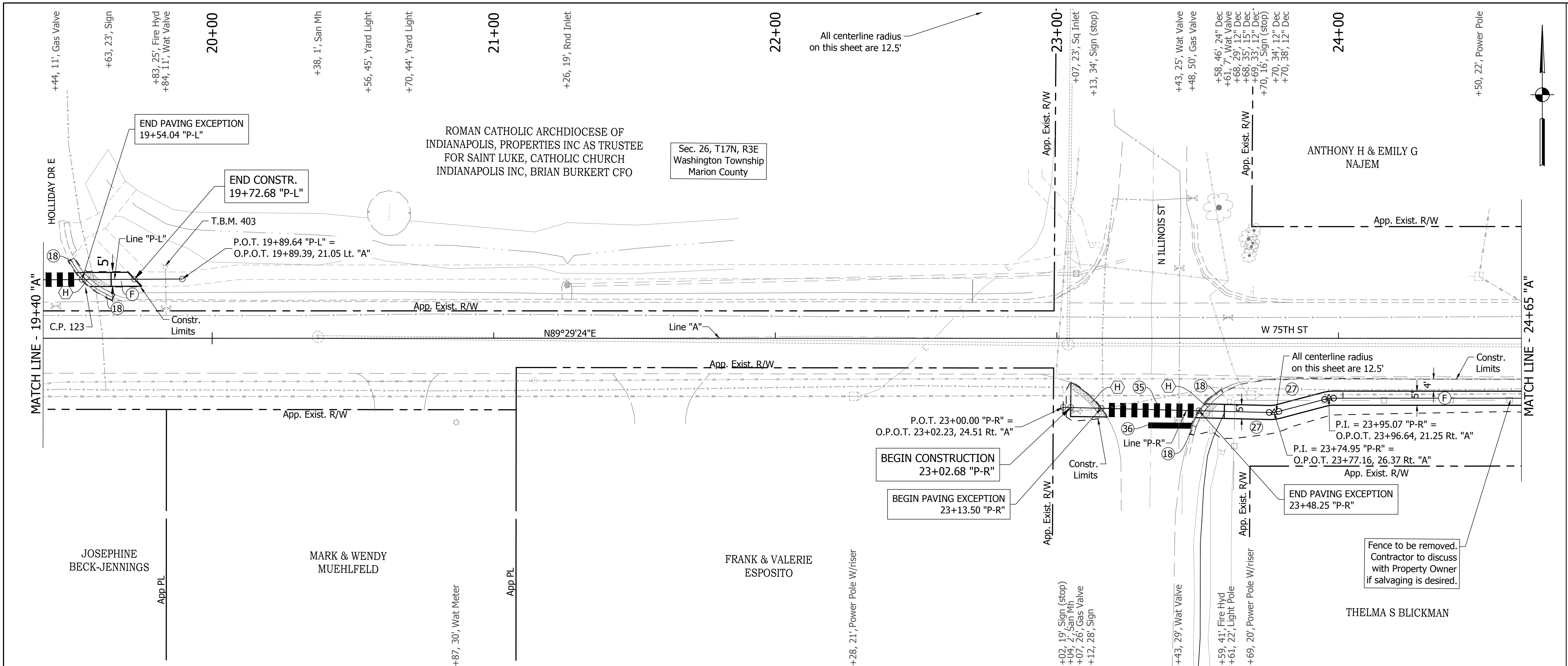
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TOWN OF MERIDIAN HILLS

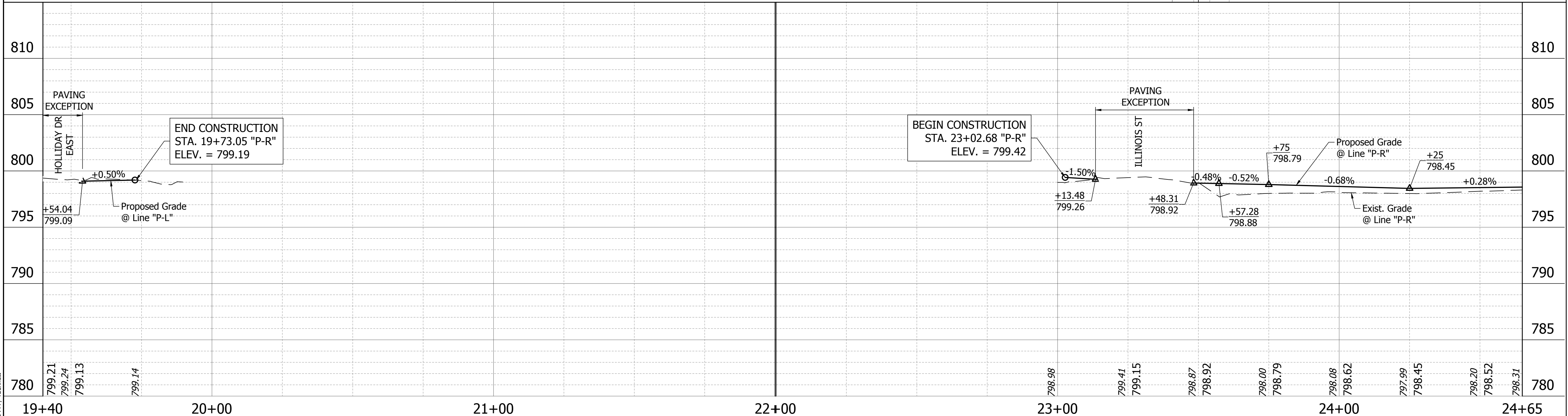
PLAN & PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	DESIGNATION
VERTICAL SCALE	-
1"=5'	SURVEY BOOK
-	7 of 19 SHEETS
CONTRACT	PROJECT
-	-

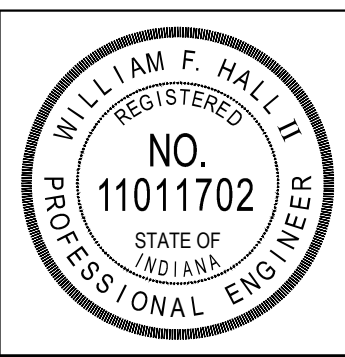
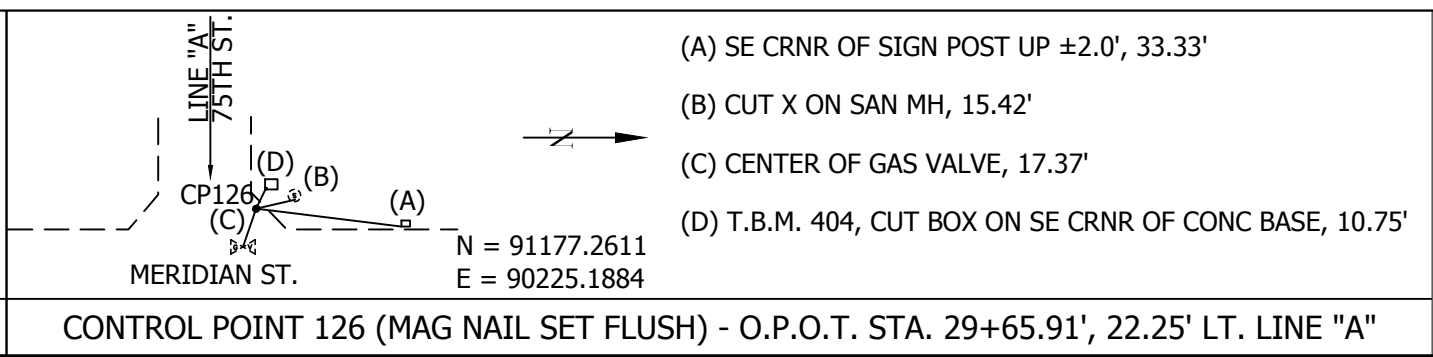
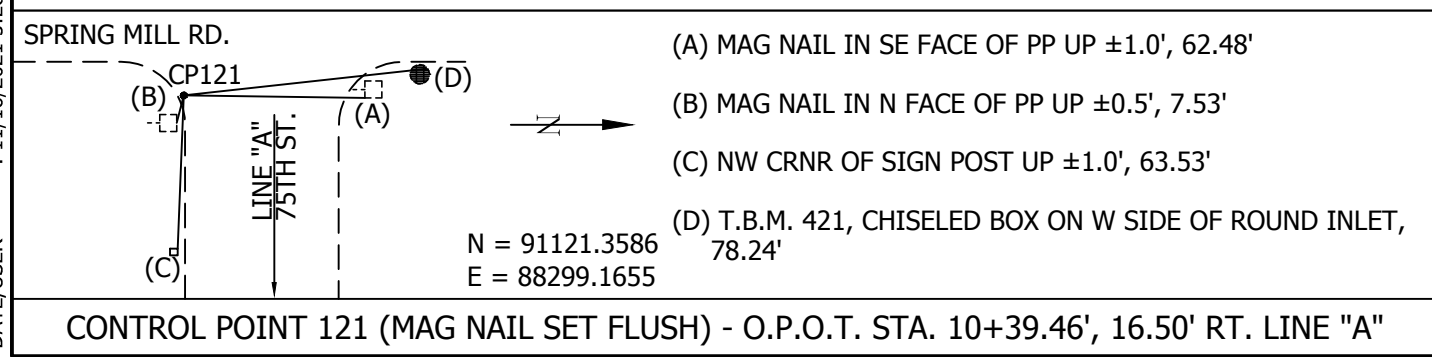
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LEGEND	
EXISTING	
	Storm Inlets
	Storm Manhole
	Sanitary Manhole
	Gas Line
	Gas Valve
	Water Line
	Water Valve
	Fire Hydrant
	Water Meter
	Sprinkler
	Irr. Valve
	Electric Line
	Electric Box
	Overhead Utility Line
	Power Pole w/(Riser)
	Light & Power Pole
	Mailbox
	Light & Power Pole w/Riser
	Guy Wire
	Light Pole
	Fiber Optic Line
	Telephone Line
	Telephone Riser
	Telephone Manhole
	Cable TV Line
	Cable TV Box
	Utility Manhole
	Wood Fence
	Wire Fence
	Chainlink Fence
	Iron Fence
	Iron Pin
	Sign
	Flag Pole
	Bush
	Tree Trunk
	Deciduous Tree
	Coniferous Tree
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	Concrete Sidewalk, 4"
	Curb & Gutter, Concrete
	Curb, Concrete
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	Transverse Marking, Thermoplastic, Solid White, Crosswalk, 24 Inches
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	Transverse Marking, Thermoplastic, Pre-formed Plastic, White, Crosswalk, 24 inches (Use on Raised Crosswalk)
	Curb Ramp
	Full Depth Asphalt Patching
(See Typical Sheet for Additional Details)	



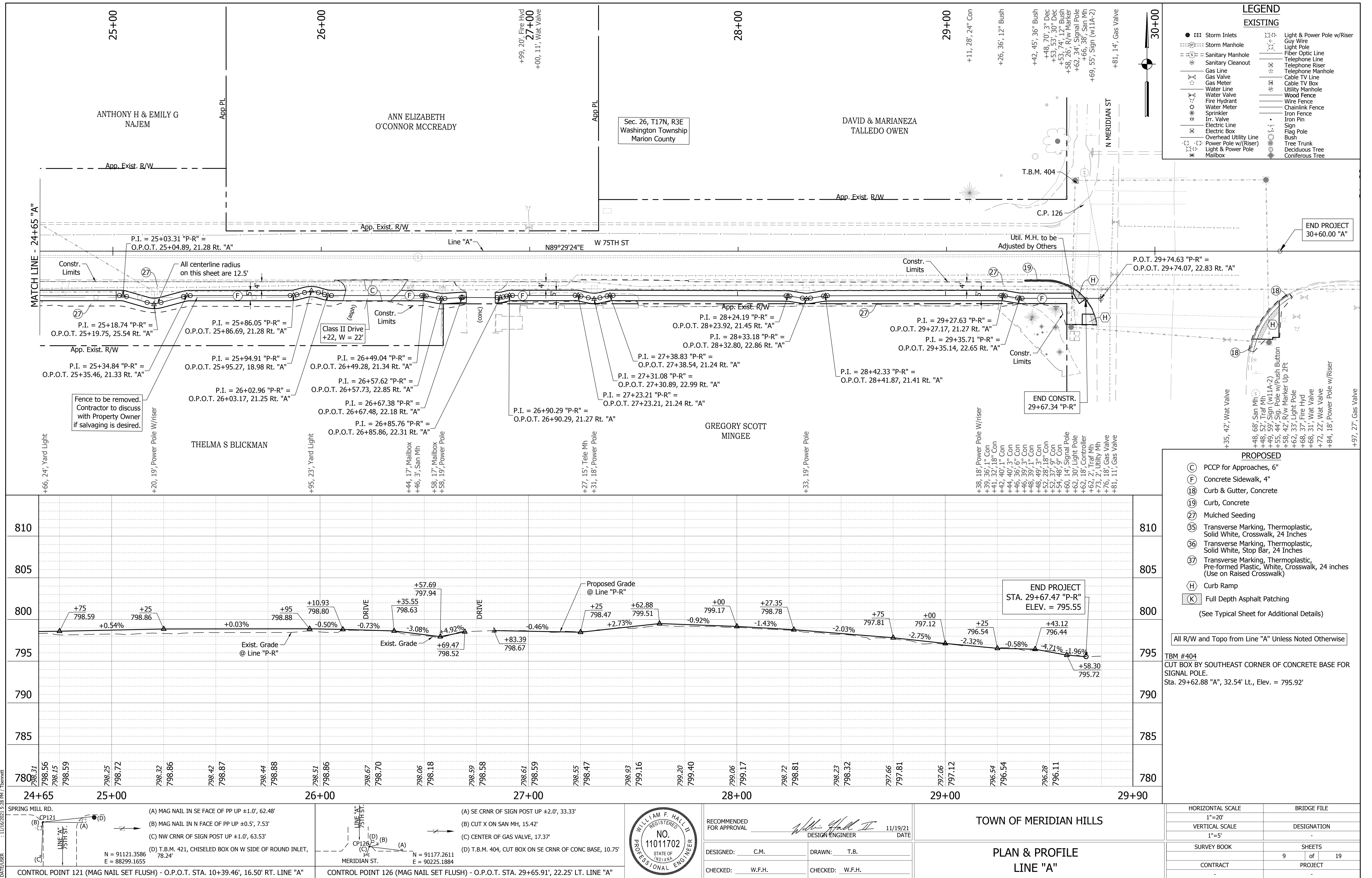
810	
805	
800	
795	
790	
785	
780	
19+40	
20+00	
21+00	
22+00	
23+00	
24+00	
24+65	
ELEVATION = 799.56 (NAVD 88)	



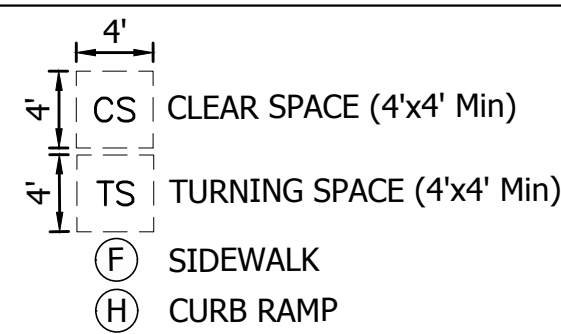
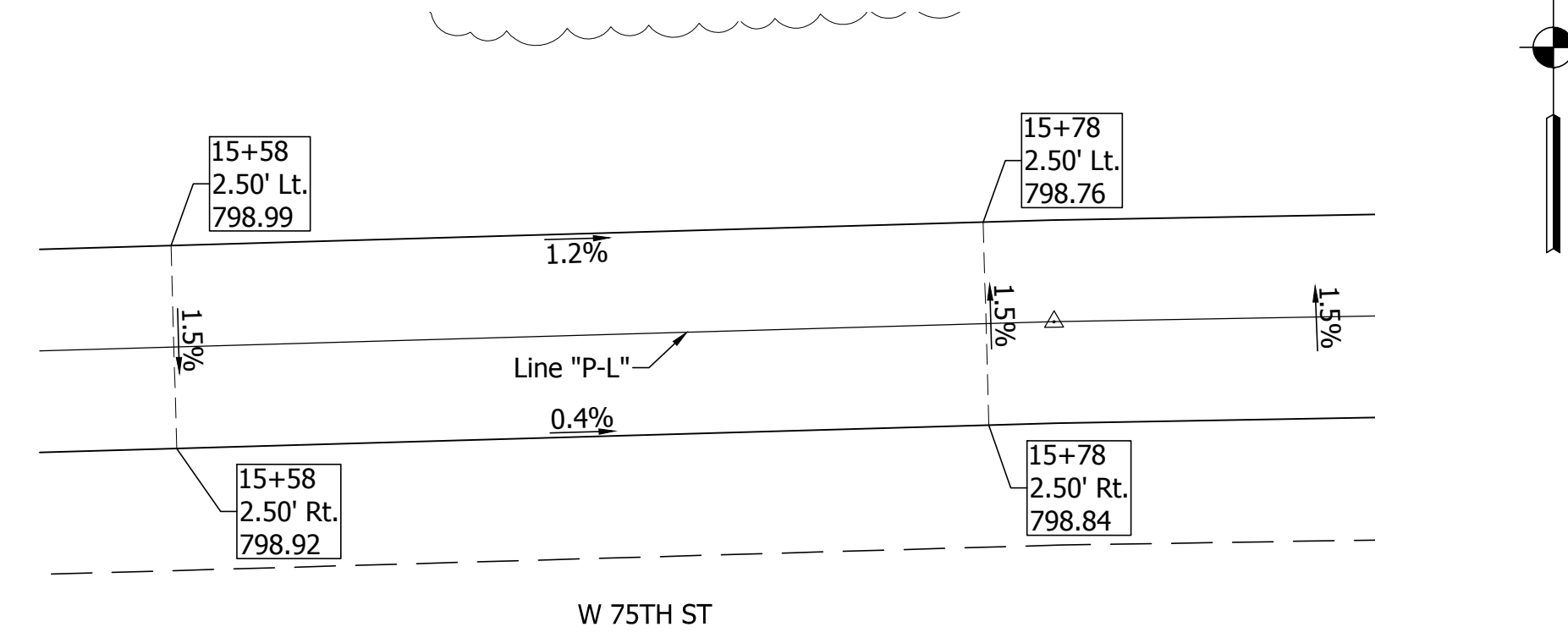
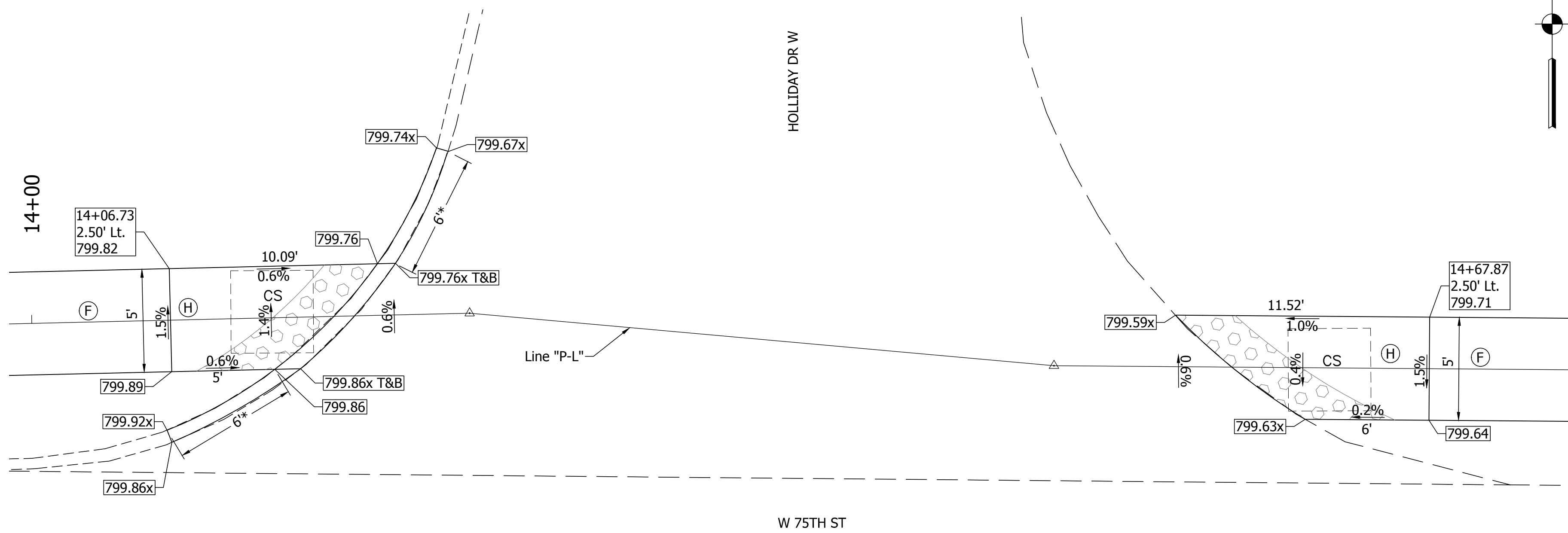
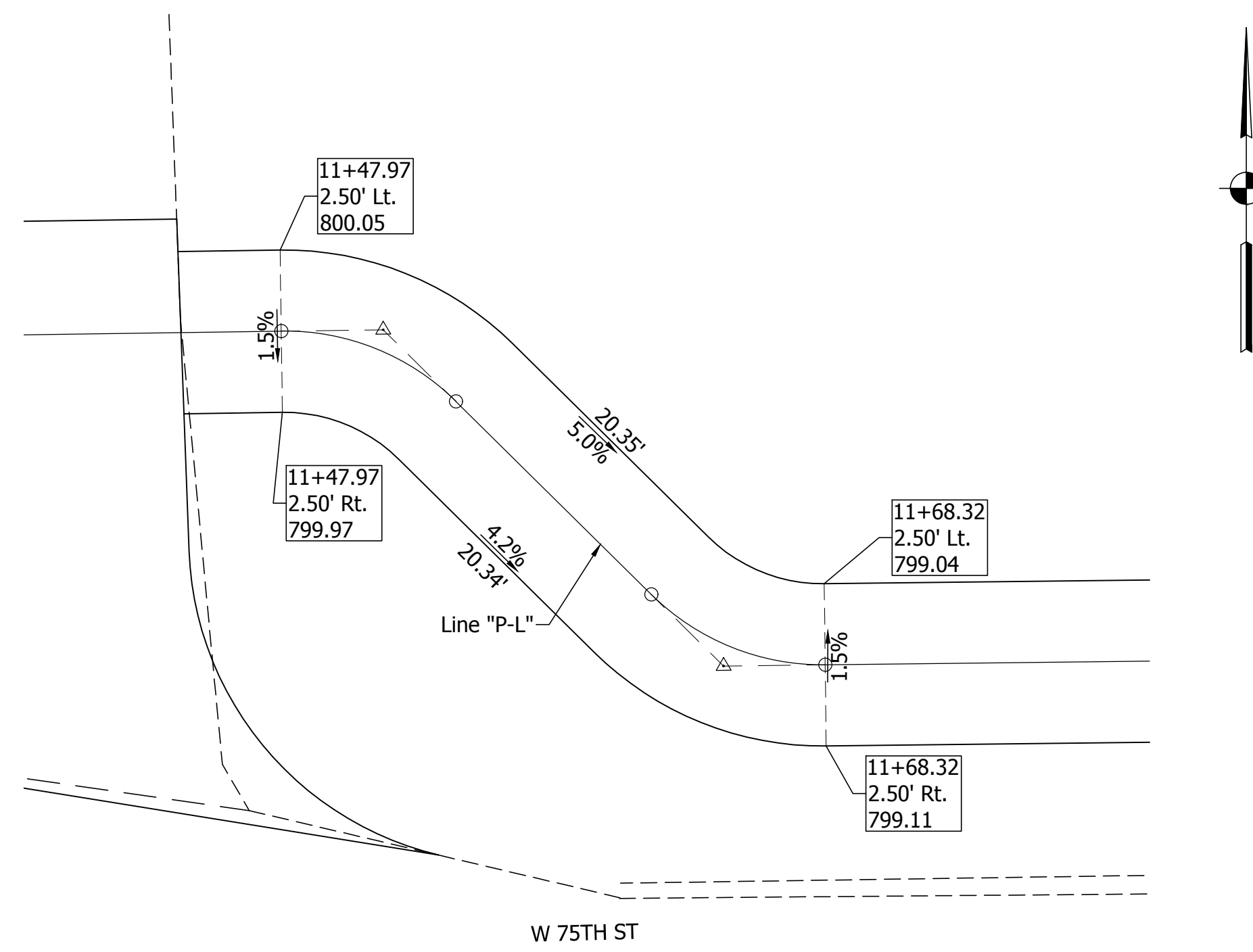
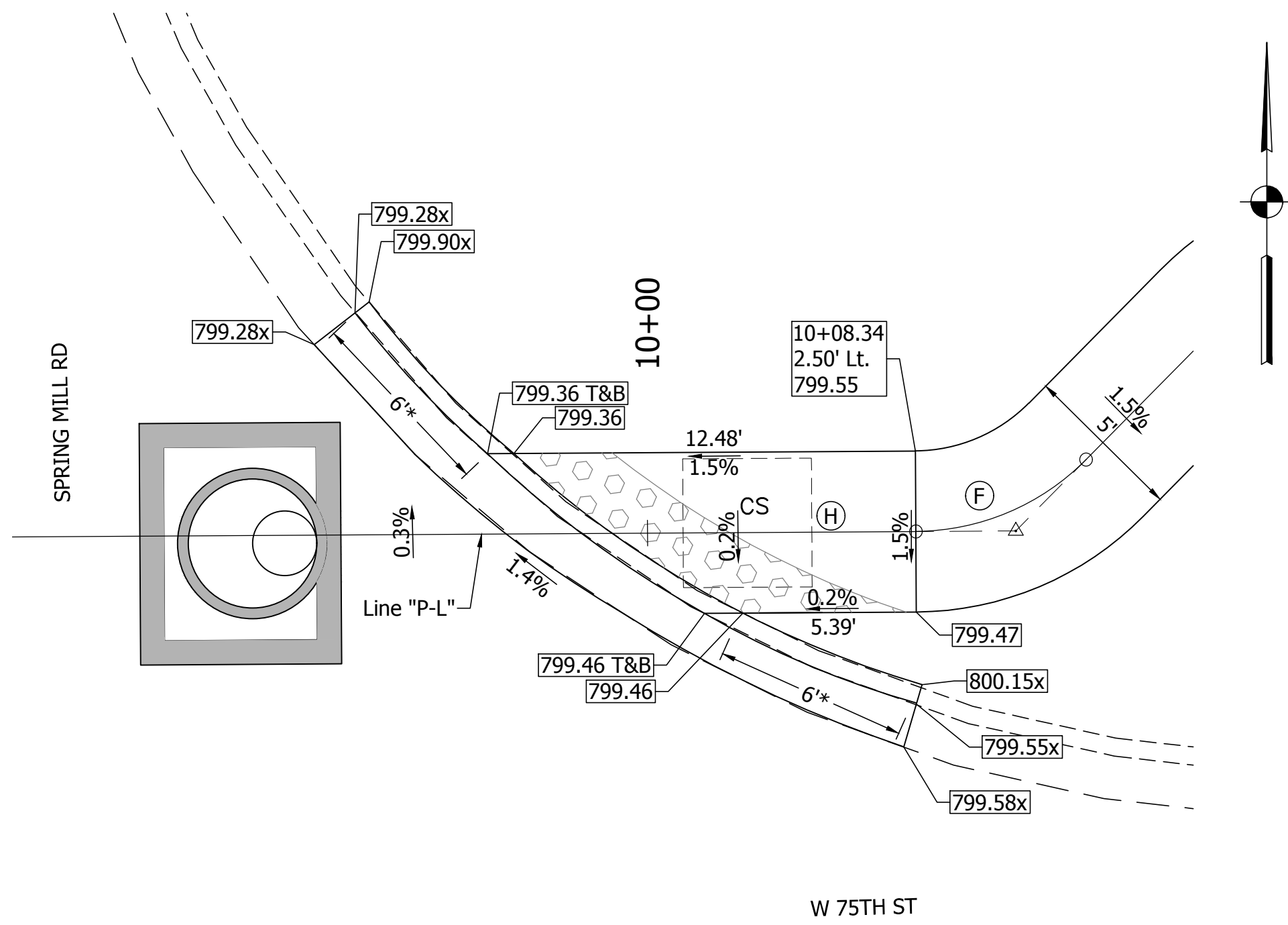
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DESIGNED:	C.M.	DRAWN:
CHECKED:	W.F.H.	CHECKED:

TOWN OF MERIDIAN HILLS	
PLAN & PROFILE LINE "A"	

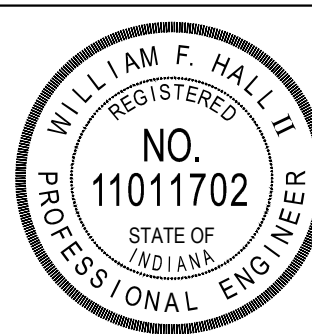
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1"=20'	DESIGNATION
VERTICAL SCALE	
1"=5'	
SURVEY BOOK	SHEETS
8	of 19
CONTRACT	PROJECT



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LEGEND
CS CLEAR SPACE (4'x4' Min)
TS TURNING SPACE (4'x4' Min)
F SIDEWALK
H CURB RAMP
T&B TOP AND BOTTOM OF CURB ARE EQUAL
X EXISTING
* 6' TRANSITION FROM 0' HEIGHT CURB TO NORMAL HEIGHT CURB



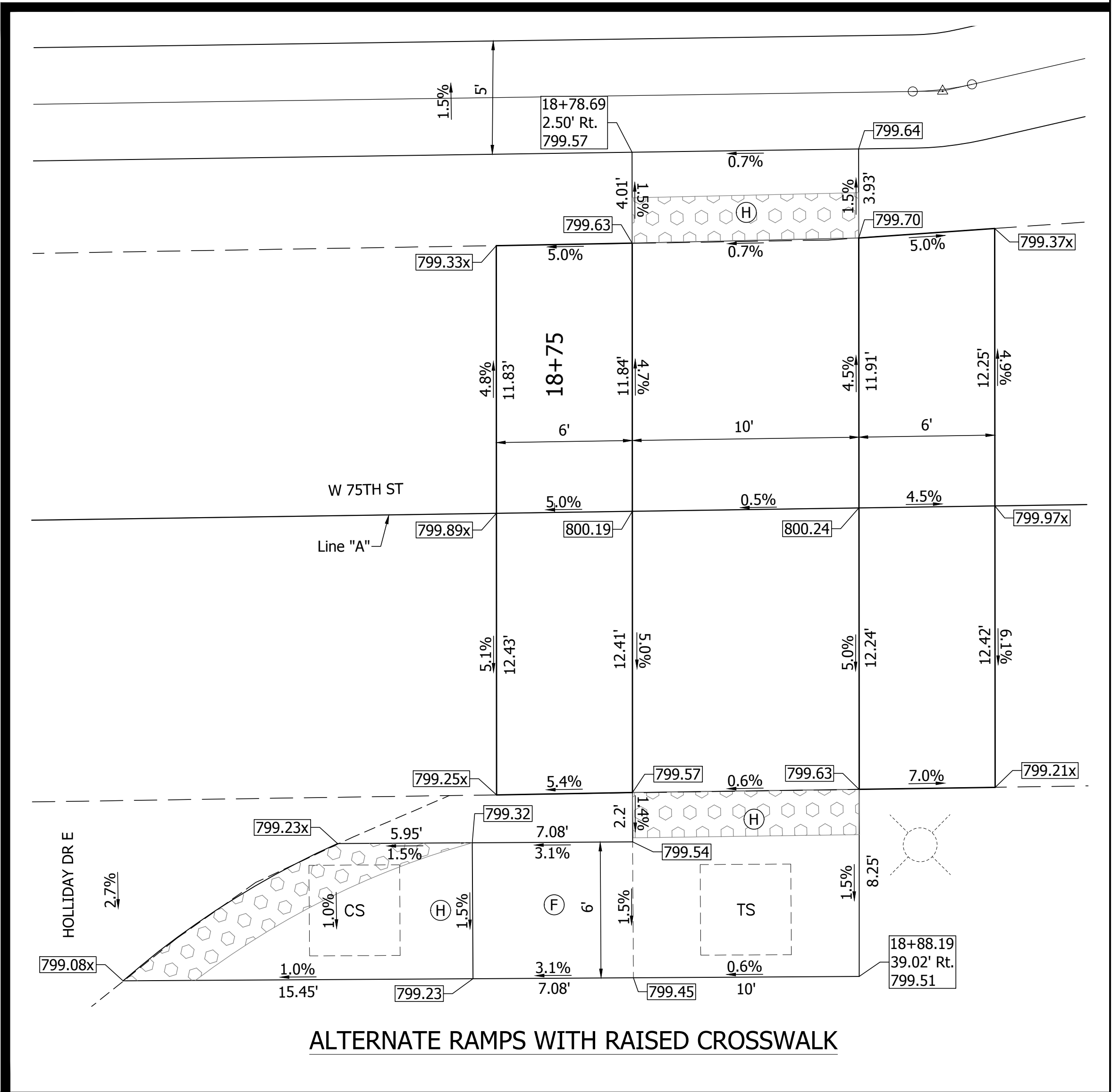
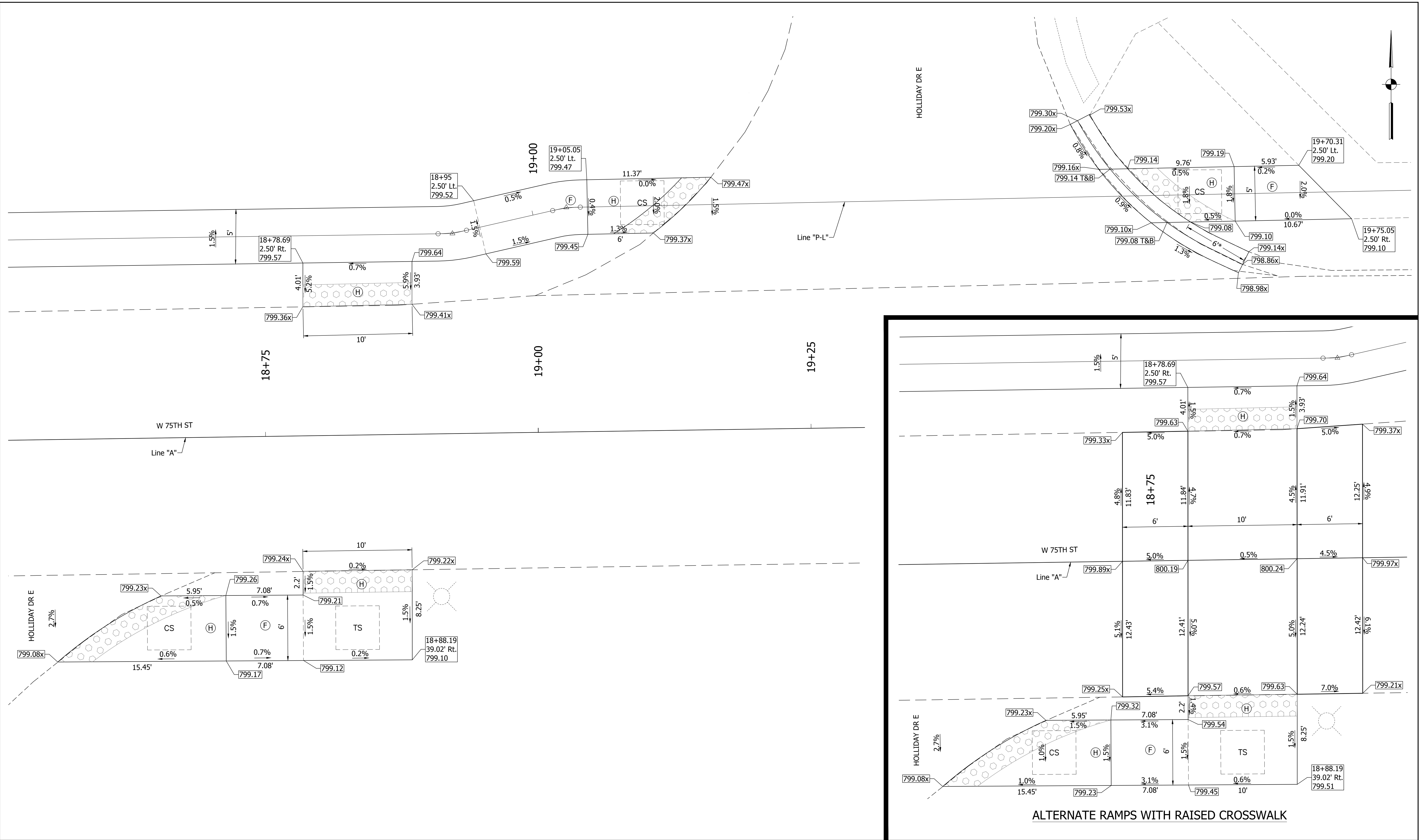
RECOMMENDED FOR APPROVAL
DESIGNED: C.M.
CHECKED: W.F.H.
DRAWN: T.B.
CHECKED: W.F.H.
DATE 11/19/21

TOWN OF MERIDIAN HILLS

RAMP DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=4'	
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
CONTRACT	10 of 19
	PROJECT
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4'

4'

CS

4'

4'

TS

CLEAR SPACE (4'x4' Min)

TURNING SPACE (4'x4' Min)

Ⓡ

Ⓡ

SIDEWALK

CURB RAMP

LEGEND

T&B

x

*

TOP AND BOTTOM OF CURB ARE EQUAL

EXISTING

6' TRANSITION FROM 0' HEIGHT CURB TO NORMAL HEIGHT CURB

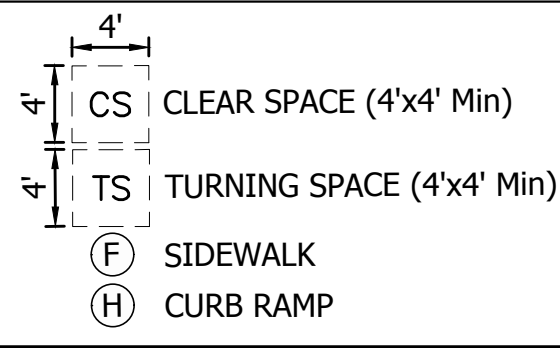
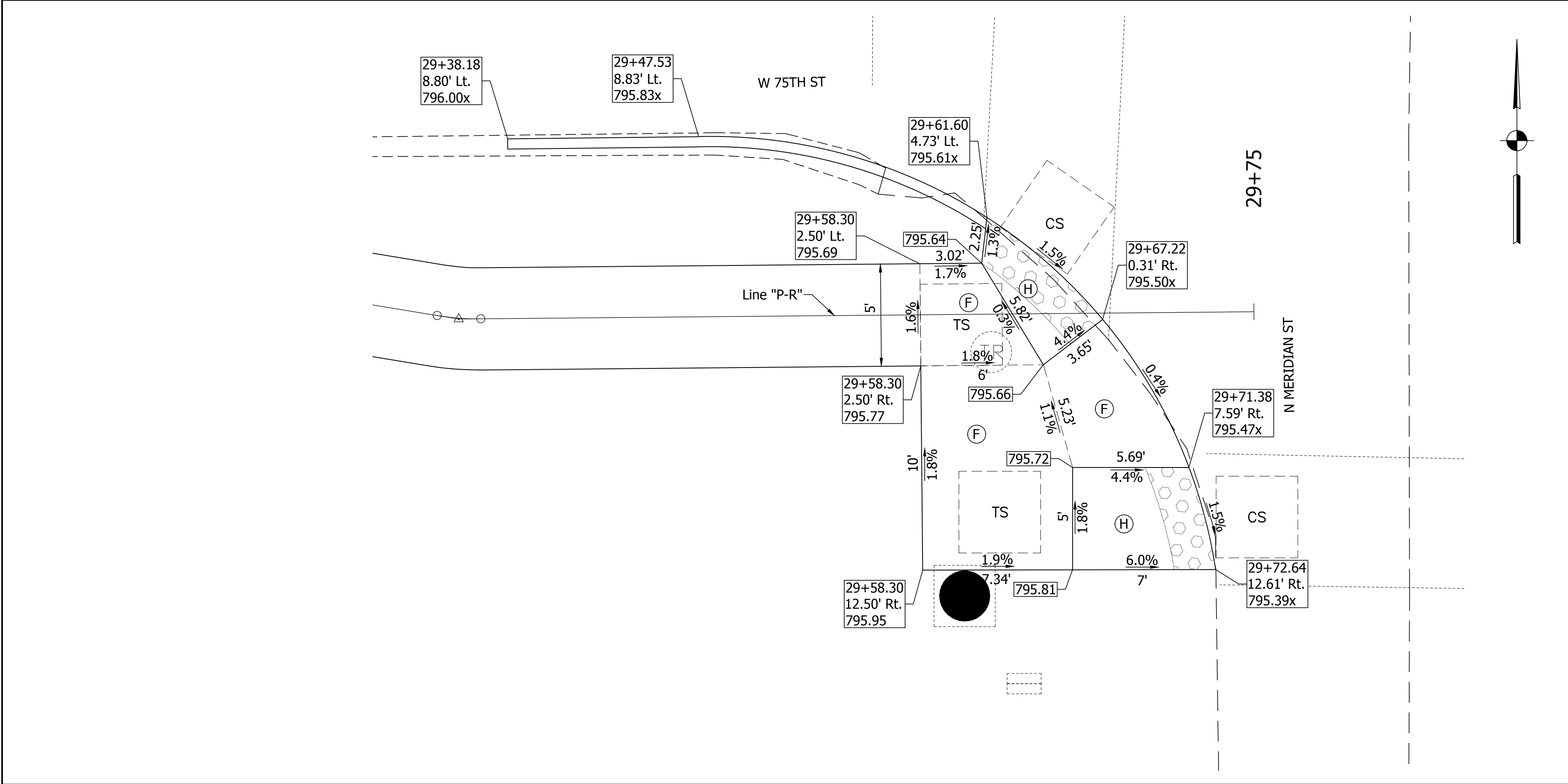
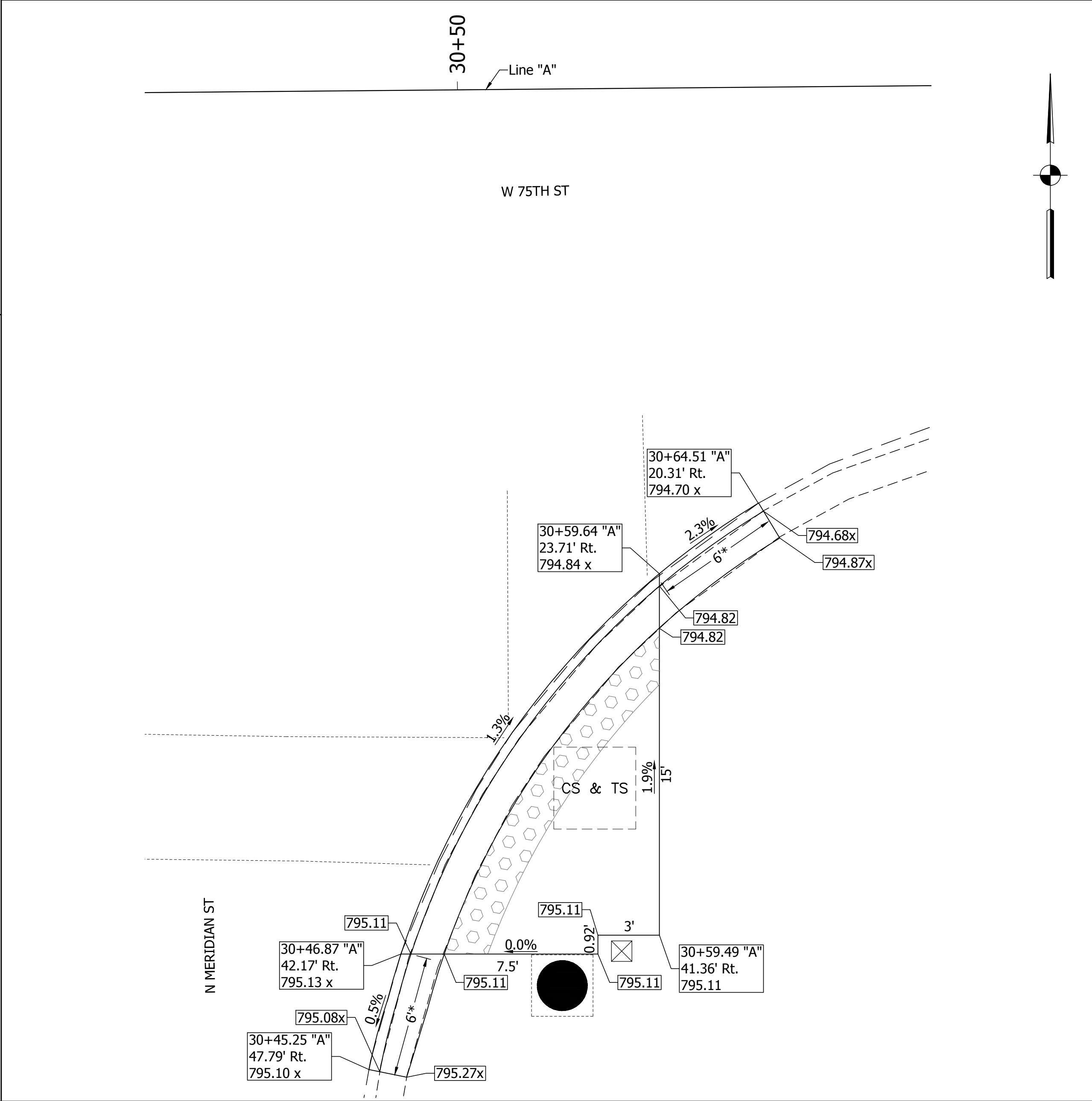
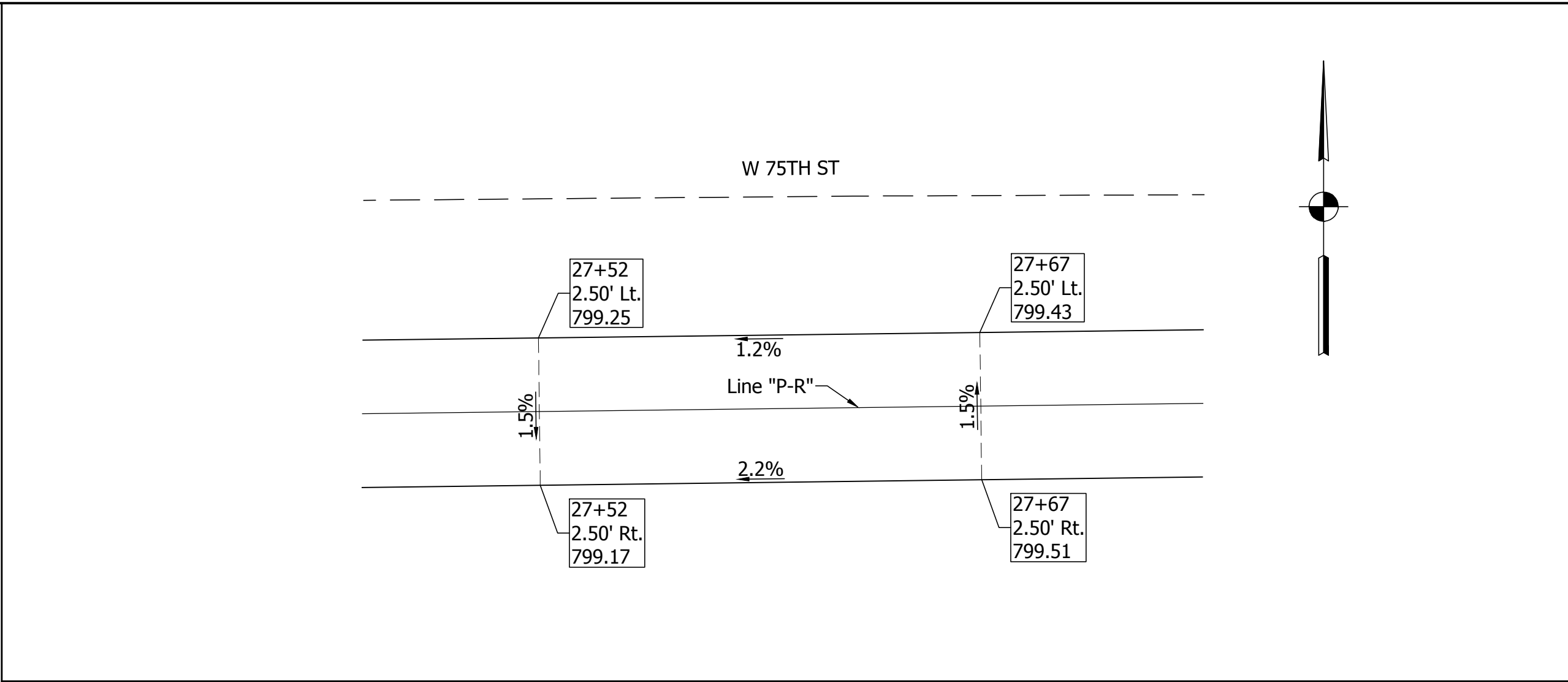
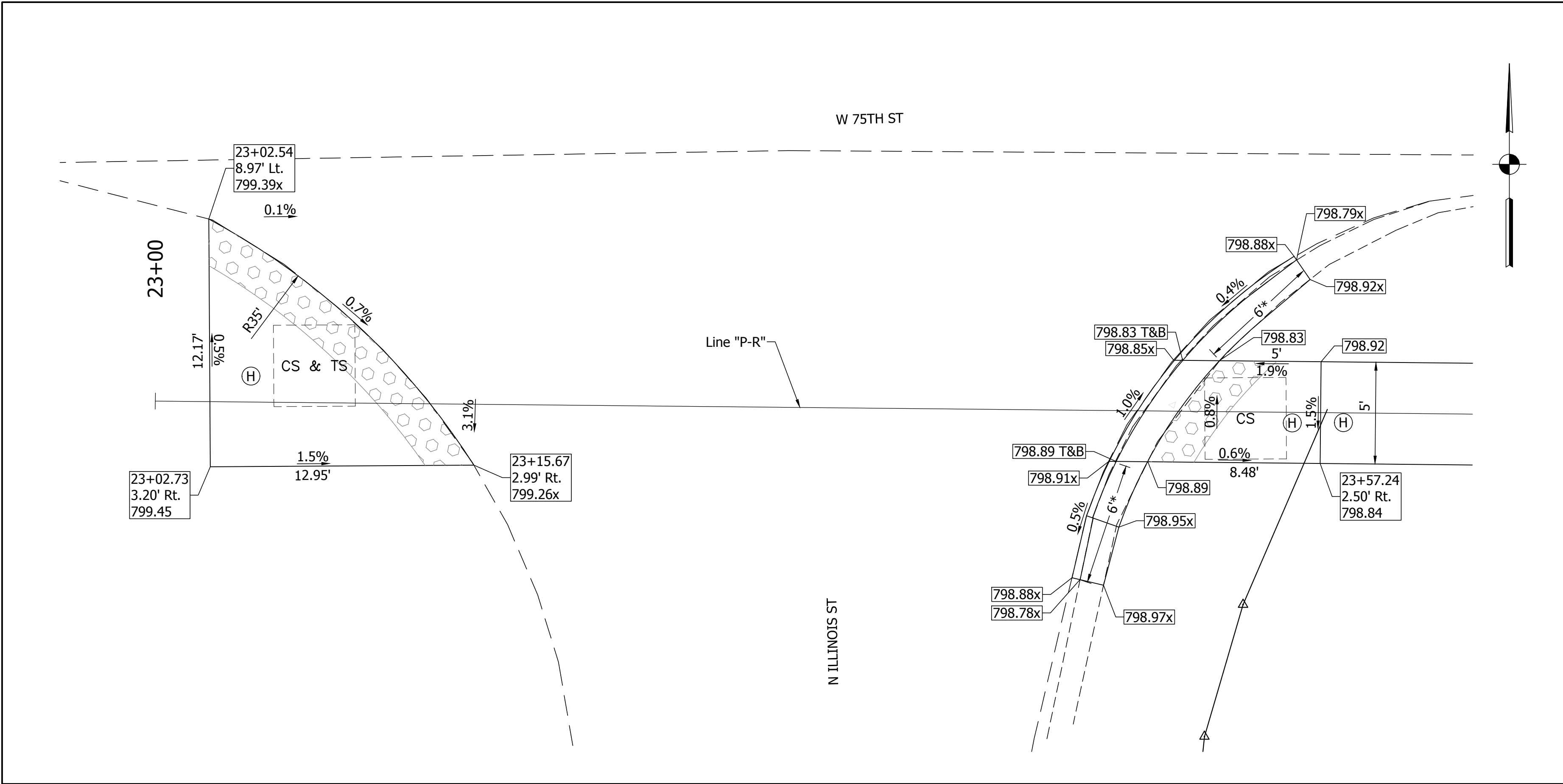


RECOMMENDED FOR APPROVAL	<i>William F. Hall, Jr.</i>	11/19/21
	DESIGN ENGINEER	DATE
DESIGNED:	C.M.	DRAWN: T.B.
CHECKED:	W.F.H.	CHECKED: W.F.H.

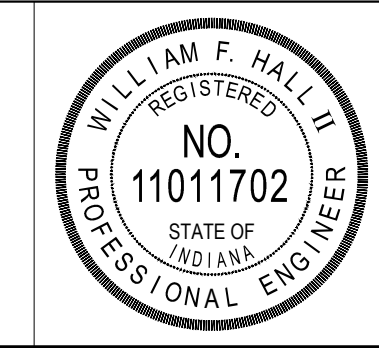
TOWN OF MERIDIAN HILLS
RAMP DETAILS

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1"=4'	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
CONTRACT	11 of 19
	PROJECT
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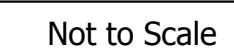
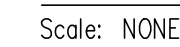
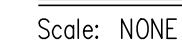


LEGEND
T&B TOP AND BOTTOM OF CURB ARE EQUAL
x EXISTING
* 6' TRANSITION FROM 0' HEIGHT CURB TO NORMAL HEIGHT CURB
(F) SIDEWALK
(H) CURB RAMP



RECOMMENDED FOR APPROVAL
DESIGNED: C.M.
CHECKED: W.F.H.
DRAWN: T.B.
CHECKED: W.F.H.
DATE: 11/19/21

TOWN OF MERIDIAN HILLS		BRIDGE FILE	
RAMP DETAILS		DESIGNATION	
		SHEETS	
		PROJECT	



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SWPP CONSTRUCTION PLAN ELEMENTS

A1 - PLAN INDEX
Sheet 2.

A2 - PLAT NO. 1
N/A

A3 - NARRATIVE DESCRIBING THE NATURE AND PURPOSE OF THE PROJECT
This project involves the construction of a concrete sidewalk along 75th Street from Spring Mill Road to Meridian Street in the Town of Meridian Hills, IN. Other aspects include the installation of a combination of hybrid ditch and storm sewer system, new drive approaches , raised crosswalk and new pavement markings.

A4 - VICINITY MAP
Sheet 1.

A5 - LEGAL DESCRIPTION
Sheet 1.

A6 - LOCATION OF LOTS AND SITE IMPROVEMENTS
All improvements are shown on the plans.

A7 - HYDROLOGIC UNIT CODE
05120201090060

A8 - NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS
None

A9 - SPECIFIC POINTS WHERE STORM WATER DISCHARGE WILL LEAVE SITE
Water will leave the site at Str. #9-Sta. 9+98 "A" via an existing City of Indianapolis storm sewer.

A10 - LOCATION AND NAME OF ALL WETLANDS, LAKES AND WATER COURSES ON AND ADJACENT TO SITE
None

A11 - IDENTIFICATION OF ALL RECEIVING WATERS
City of Indianapolis storm sewer system. Ultimately, all storm water outlets to Williams Creek.

A12 - LOCATIONS OF POTENTIAL DISCHARGES TO GROUND WATER
None.

A13 - 100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES
Flood areas are identified in FIRM maps on Sheet 15 and shown on the plans.

A14 - PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE (100 YR STORM)
Pre-construction has a discharge of: 1.5 cfs
Post-construction has a discharge of: 2.2 cfs

A15 - ADJACENT LAND USE, INCLUDING UPSTREAM WATERSHED
Land use is residential.

A16 - LOCATION AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS
Reference the construction limits as shown on the plans.

A17 - IDENTIFICATION OF EXISTING VEGETATIVE COVER
Trees and grass.

A18 - SOILS MAP INCLUDING SOIL DESCRIPTIONS AND LIMITATIONS
Soils map can be found on Sheet 16.

A19 - LOCATIONS, SIZE, AND DIMENSION OF STORM WATER SYSTEMS
Storm sewer details are identified in the plans.

A20 - PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT
No off-site construction activities are anticipated to be associated with this project.

A21 - LOCATIONS OF PROPOSED SOIL STOCKPILES, BORROW, AND/OR DISPOSAL AREAS
Locations to be determined by Contractor and approved by Town of Meridian Hills.

A22 - EXISTING TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS
Existing contours are shown on the plans.

A23 - PROPOSED FINAL TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS
Proposed contours are shown on the plans.

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 side. Sediment pollution from the site disturbing activities shall be remedied by erosion control measures (see following sections).

B2 - SEQUENCE OF STORM WATER QUALITY MEASURE IMPLICATION
1. Silt fence, inlet protection and check dams shall be placed as shown in these plans.
2. All disturbed areas shall be mulched and seeded or sodded immediately after final grade has been established. No un-vegetated areas should be exposed for more than seven days.
3. Erosion control measures shall remain in place until 70% uniform vegetation is established.

B3 - CONSTRUCTION ENTRANCES
Due to the nature of the project there are no stone construction entrances anticipated for the project.

B4 - SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS
Silt fence is shown on the plans. Reference INDOT Standard Specifications Section 205 and Standard Drawing E 205-TECD-10 & -11.

B5 - SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS
Check dam locations are shown on the plans. Reference INDOT Standard Specifications Section 205 and Standard Drawing E 205-TECD-06.

B6 - STORM SEWER INLET PROTECTION MEASURES
Storm sewer locations are shown on the plans. Reference INDOT Standard Specifications Section 205 and Standard Drawing E 205-TECI-02 through -04.

B7 - RUNOFF CONTROL MEASURES
Runoff control measures are shown on the plans as outlined in B4 and B5 (above).

B8 - STORM WATER OUTLET PROTECTION MEASURES
Outlet protection measures are shown on the plans.

B9 - GRADE STABILIZATION STRUCTURES
Erosion control blanket is to be placed on slopes greater than 3:1 as shown on these plans in accordance with the manufacturer's recommendations and in accordance with INDOT Standard Specifications Section 205.04.

B10 - LOCATION, DIMENSIONS, SPECIFICATIONS, AND DETAILS OF EACH STORM WATER QUALITY MEASURE
All locations of planned measures are identified on the plans and listed in the Erosion Control Table.

B11 - TEMPORARY SURFACE STABILIZATION
All land disturbing activities are anticipated to be completed by Fall 2021. The land is expected to be covered with temporary measures until all final grades are established.

B12 - PERMANENT SURFACE STABILIZATION
Permanent seeding or sodding will be used on all disturbed earth.

B13 - MATERIAL HANDLING AND SPILL PREVENTION
See the Potential Storm Water Pollutants/Material Handling and Spill Prevention table (right). IDEM Emergency Response - 1-888-233-7745.

B14 - MONITORING AND MAINTENANCE GUIDELINES
Monitoring and Maintenance shall be within 24 hours of every ½ " or more rain event or at least once a week.

B15 - EROSION AND SEDIMENT CONTROL MEASURES FOR INDIVIDUAL BUILDING LOTS
Not applicable.

C1 - PROPOSED POLLUTANTS AND SOURCES ASSOCIATED WITH PROPOSED LAND USE
There is a potential for pollutants from vehicles including fuel, hydraulic fluid, engine oils, lubricants, antifreeze and other petroleum products. There are also the potential hazards of road salt, litter, etc.

C2 - SEQUENCE DESCRIBING STORM WATER QUALITY MEASURES IMPLEMENTATION
Permanent seeding and sodding will be placed when proposed grades are met and there is no other significant construction in the immediate area.

C3 - DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORM WATER QUALITY MEASURES
Riprap and seed will be placed where shown on the plans. Permanent seeding will prevent erosion on mild slopes. Grass will filter sediments and other pollutants.

C4 - LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORM WATER QUALITY MEASURE
Riprap and sodding locations are shown on the plans. Reference typical cross section sheets for ditch details. Reference INDOT specification sections 616 and 621 for sodding and seeding.

C5 - DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORM WATER QUALITY MEASURES
Ditches shall be kept free of litter and other debris. Grass shall be mowed regularly and inspected for dead spots, excessive erosion, etc. These areas shall be repaired immediately.

Notes:
1. Storm Water Pollution Prevention (SWPP) checklist corresponds to the IDEM, Division of Soil Conservation Construction/Storm Water Pollution Prevention Plan Technical Review and Comment (Form 1) used in the Rule 5 permitting process.
2. The contractor shall use the SWPP checklist as a guide in preparing the SWPP plan procedures.
3. A site specific SWPP is to be submitted by the Contractor to INDOT prior to earth moving if any adjustments to the plan herein are requested.
4. The location of staging area and concrete washout area are to be submitted by the contractor.
5. One Mobilization for seeding (LSUM) are estimated.
6. Contractor is to maintain clean roadways of all tracked construction materials and sediment throughout the day and at the end of each work day.

SWPP CONTROL MEASURES

LOCATION	TEMPORARY SILT FENCE	TEMPORARY CHECK DAM, TRAVERSABLE	TEMPORARY INLET PROTECTION	TEMPORARY SEED	MANUFACTURED POTECTION PRODUCT**	TEMPORARY MULCH	TEMPORARY GEOTEXTILE	NO. 2 STONE
	LFT	LFT	EA	LBS*		TON*	SYS	TON
Construction Entrance							50	100
Line A								
10+75		13						
11+96		13						
12+97		13						
13+86		13						
15+07		13						
16+00		13						
16+92		13						
17+81		13						
18+61		13						
Str. No. 8			1					
Str. No. 10			1		56.3			
Str. No. 11			1		112.7			
Str. No. 12			1		79.4			
Str. No. 13			1		80.9			
Str. No. 14			1		31.8			
Str. No. 15			1		137.2			
Str. No. 16			1		30.3			
Str. No. 17			1		72.2			
Str. No. 18			1		91			
Str. No. 18A			1		17.3			
Str. No. 19			1		98.2			
Str. No. 20			1		173.3			
Str. No. 21			1		11.6			
Str. No. 22			1		73.7			
Str. No. 23			1		60.7			
Str. No. 24			1		67.9			
Str. No. 25			1		34.7			
Str. No. 26			1		104			
Str. No. 27			1		17.3			
10+24 to 11+18	97							
14+79 to 15+59	70							
16+66 to 17+31	65							
23+53 to 26+09	256							
TOTAL	488	117	20	72*	1350.5	1.2*	50	100

*150 lb/ac Temporary Seed
*2.5 Ton/ac Temporary Mulch
**Estimated quantity based on average ditch width. Actual quantities may vary.

Potential Storm Water Pollutants/ Material Handling and Spill Prevention

Trade Name/ Material	Source	Chemical/Physical Description	Storm Water Pollutants	Remedial Action
Fertilizer	landscaping activities	Liquid or solid grains	Nitrogen, Phosphorous	(1), (2), (3)
Cleaning Solvents	Building construction, normal business operation	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	Seal drains and inlets with plastic and or tape and collect excess. (1), (2), (3), (4)
Asphalt	Site construction	Black Solid	Oil, petroleum distillates	(1), (2) due to contamination of runoff before curing is complete
Concrete	Site and building construction	White solid	Limestone, sand.	Concrete excess and washout shall be placed on the edge of the temporary construction entrance and pulverized when it has hardened, care should be taken to ensure that it does not drain directly to storm sewers or ditches (2).
Glue, Adhesives	Building Construction	White or yellow liquid	Polymers, epoxies	(1), (2), (3), (4)
Paints	Painting of building and parking striping	Various colored liquids	Metal oxides, stoddard solvent, talc, calcium carbonate, arsenic	Care should be taken to minimize overspray (1), (2), (3), (4)
Curing Compounds	Site and Building Construction	Creamy white liquid	Naphtha	(1), (2), (3), (4)
Wastewater from construction equipment washing	Construction Equipment	Water	Soil, oil, grease, solids	Equipment washing shall be executed in a location which does not cause wastewater to drain directly to storm sewers or ditches (i.e. flat vegetated area) (2)
Hydraulic oil / fluids	Construction equipment, cars	Brown oily petroleum hydrocarbon	Mineral oil	Storm structures incorporate a hooded outlet preventing floatables from exiting site. (3), (4)
Gasoline	On site storage tanks, cars, construction equipment, fueling operations	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE	Storage tanks shall have emergency storage capacity below tank in case of rupture, 3'x3'6" spill pans shall be used during fueling operations (3), (4)
Diesel Fuel	On site storage tanks, cars, construction equipment, fueling operations	Clear, blue-green to yellow liquid	Bpetroleum distillate, oil and grease, naphthalene, xylenes	Storage tanks shall have emergency storage capacity below tank in case of rupture, 3'x3'6" spill pans shall be used during fueling operations (3), (4)
Kerosene	Cleaning operations, heaters	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates, arsenic, copper,	3'x3'6" spill pans shall be used during fueling operations and cleaning of equipment to catch excess. (1), (2), (3), (4)
Antifreeze Coolant	Construction equipment, cars	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	(1), (2), (3), (4)
Soil erosion	Exposed soil	Solid Particles	Soil, sediment	Erosion Control Measures (this sheet)
Solid Waste Trash	building construction, normal business operation	Trash, debris, refuse	Trash, debris, refuse	Trash cans shall be utilized on site during and after construction, hooded storm structure outlets shall prevent floatable debris from leaving site

Notes:
(1) All excess materials shall be collected and disposed of in accordance with all federal, state, and local regulations
(2) Material shall not be applied immediately preceding, during, or following rainfall (when applicable)
(3) Spillage should be cleaned immediately by a trained individual and disposed of per Note (1)
(4) Store in sealed containers appropriate for specific use.

(5) The above table was provided for general information only to supplement information used in the Rule 5 permitting process. The contractor is responsible for material handling and spill mitigation procedures, including concrete washout.

Metal pins or staples to secure the polythylene lining to the straw bales

Wood or metal stakes to secure the straw bales (2 per straw bale)

Straw bale (alternate materials or products may be used to provide structural containment. Alternative materials or products will require design modification.

Polythylene lining (10 mil); the lining should extend over the straw bales.

L = Inside Length
W = Inside Width

PLAN VIEW
Not to scale

Metal pins or staples to secure the polythylene lining to the straw bales

Polythylene lining (10 mil); the lining should extend over the straw bales

Metal pins or staples to secure the polythylene lining to the straw bales

Wood or metal stakes to secure the straw bales (2 per straw bale)

Straw bale (alternate materials or products may be used to provide structural containment)

Compacted soil material

Straw bales entrenched 4 inches into the soil

SECTION A-A
Not to scale

CONCRETE WASHOUT DETAIL
Not to scale

* INDOT SPECIFICATION BOOK SHALL BE ON SITE AT ALL TIMES *
WWW.IN.GOV/DOT/DIV/CONTRACTS/STANDARDS/DRAWINGS/INDEX.HTML

WILLIAM F. HALL II
REGISTERED
NO. 11011702
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

W.F.H.
DESIGN ENGINEER

11/19/21
DATE

DESIGNED: C.M.
DRAWN: T.B.

CHECKED: W.F.H.
CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS

STORM WATER POLLUTION PREVENTION
CONSTRUCTION PLAN
ELEMENTS AND GENERAL NOTES

HORIZONTAL SCALE
N.T.S.

VERTICAL SCALE
N/A

SURVEY BOOK

CONTRACT
-

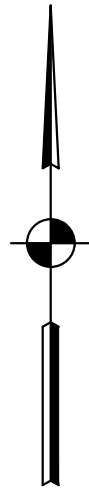
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SHEETS
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LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.

- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

- OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

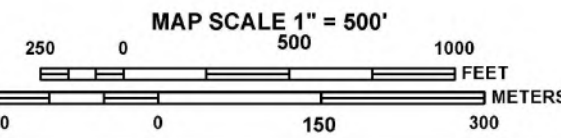
- Cross section line
- Transect line
- Culvert
- Bridge
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 5000-foot ticks: Indiana State Plane East Zone (FIPS Zone 1301), Transverse Mercator projection
- 1000-meter Universal Transverse Mercator grid values, zone 16
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile
- MAP REPOSITORIES
- Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
- January 5, 2001

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

April 19, 2016 - to add Base Flood Elevations, to add roads and road names, to change Special Flood Hazard Areas, to change zone designations, to change Base Flood Elevations, to update corporate limits, to update map format, to incorporate previously issued Letters of Map Revision, to reflect updated topographic information, to add Special Flood Hazard Areas, to add floodway and to change floodway.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0043F

FIRM
FLOOD INSURANCE RATE MAP
MARION COUNTY,
INDIANA
ALL JURISDICTIONS

CONTAINS:
COMMUNITY
INDIANAPOLIS,
CITY OF

NUMBER
180159

PANEL
0043

SUFFIX
F

3100000 FT

5000-foot ticks: Indiana State Plane East Zone
(FIPS Zone 1301), Transverse Mercator projection

1000-meter Universal Transverse Mercator grid values, zone 16

DX5510

1:5

MAP REPOSITORIES

Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
January 5, 2001

APR 19, 2016 - to add Base Flood Elevations, to add roads and road names, to change Special Flood Hazard Areas, to change zone designations, to change Base Flood Elevations, to update corporate limits, to update map format, to incorporate previously issued Letters of Map Revision, to reflect updated topographic information, to add Special Flood Hazard Areas, to add floodway and to change floodway.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

U.S. DEPARTMENT OF
ARMED FORCES

**MAP NUMBER
18097C0043F
MAP REVISED
APRIL 19, 2016**

Federal Emergency Management Agency

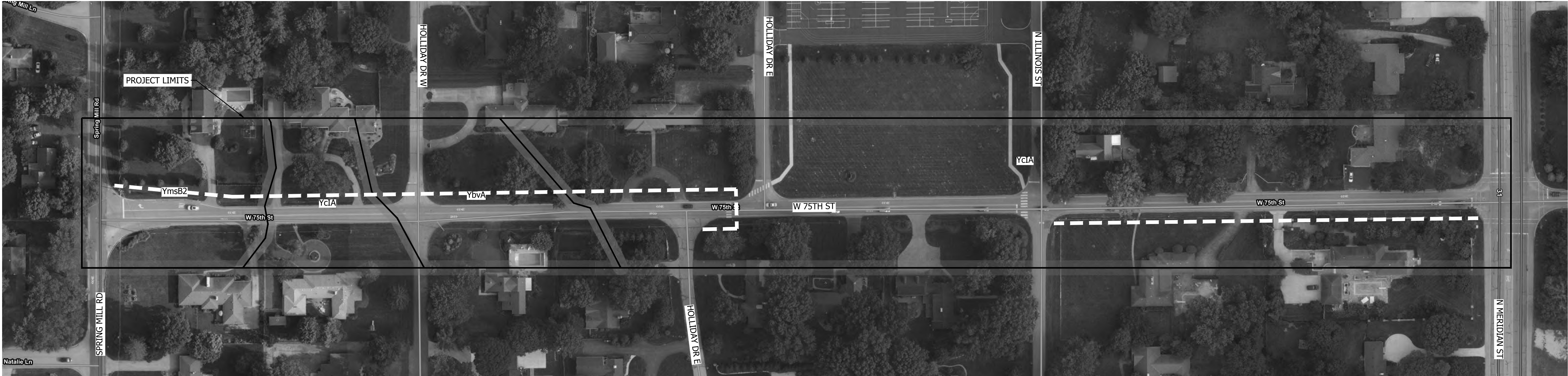


RECOMMENDED FOR APPROVAL	<i>Willam F. Hall II</i>	11/19/21
	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS
STORM WATER POLLUTION PREVENTION CONSTRUCTION PLAN FLOOD MAPS

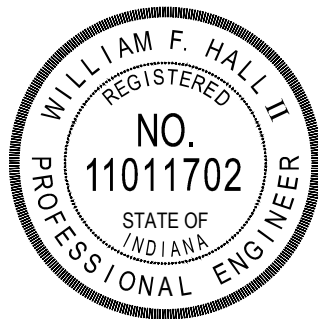
HORIZONTAL SCALE	BRIDGE FILE
N.T.S.	
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
	15 of 19
CONTRACT	PROJECT
-	-

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FILENAME : SWPP-ELEMENTS.dwg
DATE/USER : 11/19/2021 8:37 AM / T Bennett



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
YbvA	Brookston silty clay loam-Urban land complex, 0 to 2 percent slopes	1.3	12.8%
YclA	Crosby silt loam, fine-loamy subsoil-Urban land complex, 0 to 2 percent slopes	7.5	74.2%
YmsB2	Miami silt loam-Urban land complex, 2 to 6 percent slopes, eroded	1.3	13.0%
Totals for Area of Interest		10.2	100.0%



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CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS
STORM WATER POLLUTION PREVENTION CONSTRUCTION PLAN SOIL MAP

HORIZONTAL SCALE	BRIDGE FILE
N.T.S.	
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
	16 of 19
CONTRACT	PROJECT
-	-

DIRECTORY PATH : R:\Active\Meridian Hills\75thStreet\Path - Springinal To Meridian\Design\CAD\Plans
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DATE/USER : 11/19/2021 2:15 PM / Tbernett



LEGEND

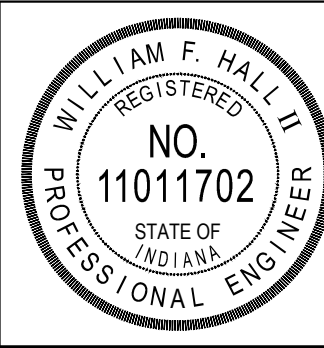
EXISTING

●	Storm Inlets	⊠	Light & Power Pole w/Riser
⊠	Storm Manhole	⊠	Guy Wire
⊠	Sanitary Manhole	⊠	Light Pole
⊠	Sanitary Cleanout	⊠	Fiber Optic Line
⊠	Gas Line	⊠	Telephone Line
⊠	Gas Valve	⊠	Telephone Riser
⊠	Gas Meter	⊠	Telephone Manhole
⊠	Water Line	⊠	Cable TV Line
⊠	Water Valve	⊠	Cable TV Box
⊠	Fire Hydrant	⊠	Utility Manhole
⊠	Water Meter	⊠	Wood Fence
⊠	Sprinkler	⊠	Wire Fence
⊠	Irr. Valve	⊠	Chainlink Fence
⊠	Electric Line	⊠	Iron Fence
⊠	Electric Box	⊠	Iron Pin
⊠	Overhead Utility Line	⊠	Sign
⊠	Power Pole w/(Riser)	⊠	Flag Pole
⊠	Light & Power Pole	⊠	Bush
⊠	Mailbox	⊠	Tree Trunk
		⊠	Deciduous Tree
		⊠	Coniferous Tree

EROSION CONTROL LEGEND

⊠	Silt Fence
⊠	Inlet Protection
⊠	Check Dam

Note:
Erosion Control Blankets to be used
on ditch slopes after seeding.

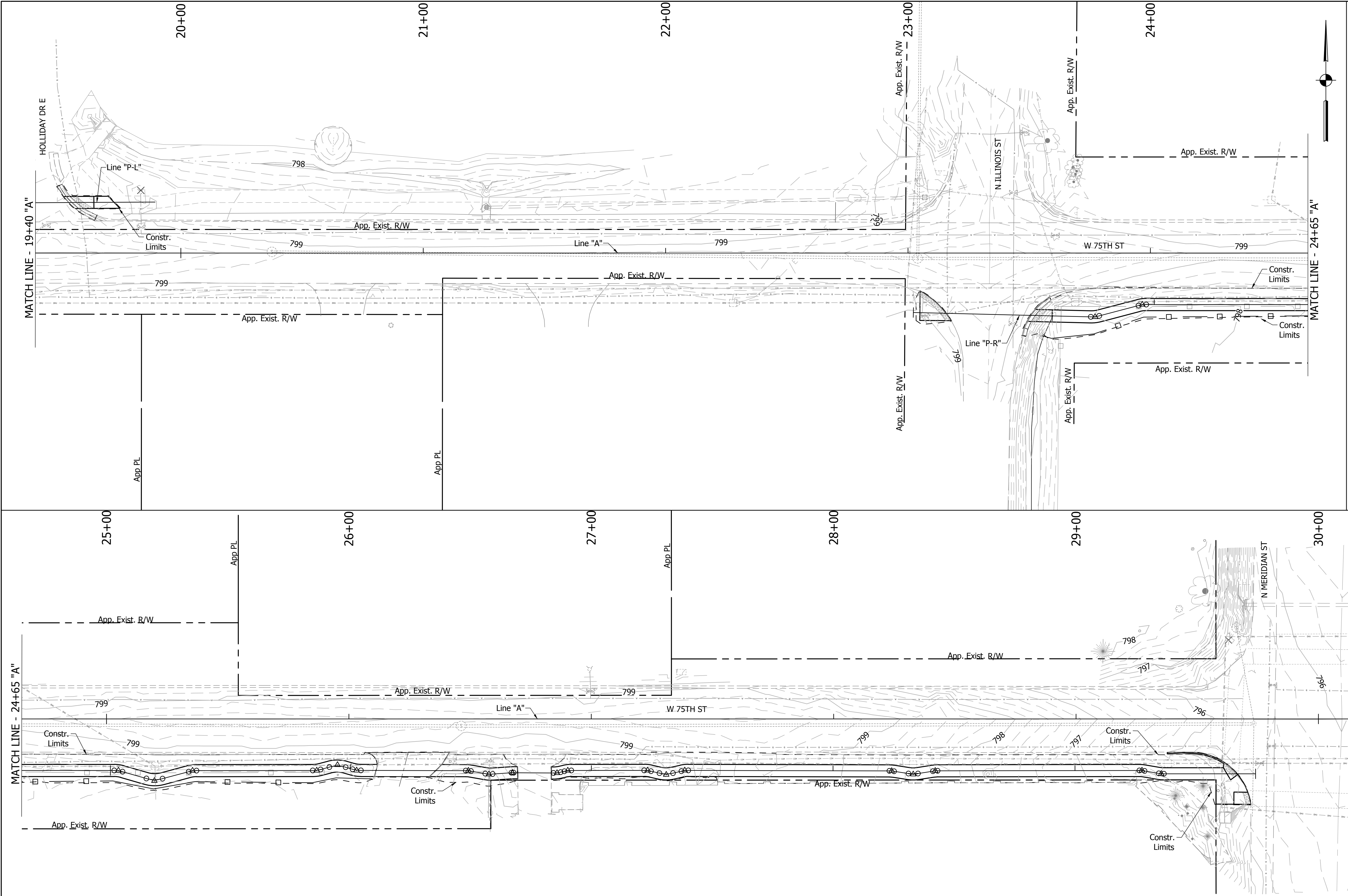


RECOMMENDED FOR APPROVAL	<i>Will F. Hall II</i>	11/19/21	
DESIGNED:	C.M.	DRAWN:	T.B.
CHECKED:	W.F.H.	CHECKED:	W.F.H.

TOWN OF MERIDIAN HILLS
EROSION CONTROL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
CONTRACT	17 of 19
	PROJECT
	-

DIRECTORY PATH : R:\Active\Meridian Hills\75thStreet\Path - Spring\To Meridian\Design\CAD\Plans
FILENAME : EC PLAN.dwg
DATE/USER : 11/19/2021 2:15 PM / Tbenett



LEGEND

EXISTING

- Storm Inlets
- Storm Manhole
- Sanitary Manhole
- Sanitary Cleanout
- Gas Line
- Gas Valve
- Gas Meter
- Water Line
- Water Valve
- Fire Hydrant
- Water Meter
- Sprinkler
- Irr. Valve
- Electric Line
- Electric Box
- Overhead Utility Line
- Power Pole w/(Riser)
- Light & Power Pole
- Mailbox
- Light & Power Pole w/Riser
- Guy Wire
- Light Pole
- Fiber Optic Line
- Telephone Line
- Telephone Riser
- Telephone Manhole
- Cable TV Line
- Cable TV Box
- Utility Manhole
- Wood Fence
- Wire Fence
- Chainlink Fence
- Iron Fence
- Iron Pin
- Sign
- Flag Pole
- Bush
- Tree Trunk
- Deciduous Tree
- Coniferous Tree

EROSION CONTROL LEGEND

- Silt Fence
- Inlet Protection
- Check Dam

Note:
Erosion Control Blankets to be used on ditch slopes after seeding.



RECOMMENDED FOR APPROVAL	<i>William F. Hall II</i>	11/19/21
	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS
EROSION CONTROL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	-
SURVEY BOOK	SHEETS
CONTRACT	18 of 19
	PROJECT

PAVEMENT QUANTITIES AND APPROACH TABLE

PAVEMENT QUANTITIES AND APPROACH TABLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII 1	RADII 2	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE			EXCAVATION		CLEAR ZONE AT DRIVE	HMA FOR APPROACHES			HMA FOR SIDEWALK		HMA FOR PATCHING, TYPE B			BASE SEAL	ASPHALT MATERIAL FOR		DENSE GRADED SUBBASE			PCCP FOR APPROACHES, 6 IN	MILLING, ASPHALT, 2 IN.	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
							COMPACTED AGGREGATE BASE	HMA	PCCP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

STRUCTURE DATA

STRUCTURE DATA																																		
STRUCTURE NUMBER	LOCATION				PIPE TYPE*	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	SKEW	STRUCTURE INVERTS			RIM	SERVICE LIFE	BACKFILL METHOD	STRUCTURE BACKFILL		ENGINEERED SOIL	COMPACTED AGGREGATE, NO 8	COMPACTED AGGREGATE, NO 11	CONCRETE CLASS A, FOR STR.	VIDEO INSPECTION PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STRUCTURE	REMARKS					
	STATION	LEFT	CROSS RIGHT	COVER					UP STREAM	DOWN STREAM	ELEV.	TYPE			CYS	CYS						CYS	CYS	CYS	LFT	EA.	TYPE			SLOPE	EA.	TYPE	SLOPE	EA.
	Line A																																	
8	9+97	X				Existing Pipe Catch Basin	0																							No change to structure. Cap and Fill Pipe				
9	9+98	X				Manhole D-4	0	10.4	787.86	787.89	799.30			See Sheet 13			0.00	0.00	0.00											Connect existing pipes				
10	10+37	X		12	I	Nyloplast Catch Basin, 18"	39	6.1	790.58	790.38	797.70	75	1	1	31.7	0.00	0.00	0.00										9						
11	11+14	X		12	II	Nyloplast Catch Basin, 18"	78	6.3	791.07	790.68	798.36			See Sheet 13			74.33	2.89	0.36									10						
12	11+69	X		12	I	Nyloplast Catch Basin, 18"	55	5.2	791.44	791.17	797.65			See Sheet 13			39.21	2.04	0.25									11						
13	12+25	X		12	II	Nyloplast Catch Basin, 18"	56	5.9	791.82	791.54	798.70			See Sheet 13			48.25	2.07	0.26									12						
14	12+47	X		12	I	Nyloplast Catch Basin, 18"	22	5.0	792.03	791.92	798.00			See Sheet 13			15.63	1.97	0.29									13						
15	13+42	X		12	II	Nyloplast Catch Basin, 18"	95	4.3	792.61	792.13	797.96			See Sheet 13			52.51	7.82	1.07									14						
16	13+63	X		12	I	Nyloplast Catch Basin, 18"	21	4.5	792.81	792.71	798.30			See Sheet 13			12.37	1.76	0.25									15						
17	14+13	X		12	II	Nyloplast Catch Basin, 18"	50	4.9	793.16	792.91	799.10			See Sheet 13			35.17	4.45	0.65									16						
18	14+75	X		12	I	Nyloplast Catch Basin, 18"	62	4.6	793.57	793.26	799.16	75	1	1	37.8	0.00	0.00	0.00										17						
19	15+43	X		12	I	Nyloplast Catch Basin, 18"	69	3.8	794.02	793.68	798.82	75	1	1	35	0.00	0.00	0.00										18						
20	16+63	X		12	I	Nyloplast Catch Basin, 18"	120	3.5	794.72	794.12	799.26	75	1	1	56.3	0.00	0.00	0.00										19						
21	16+63	X		12	I	Nyloplast Catch Basin, 18"	7	3.1	794.86	794.82	798.99	75	1	1	2.9	0.00	0.00	0.00										20						
22	17+14	X		12	I	Nyloplast Catch Basin, 18"	51	2.9	795.07	794.82	799.02	75	1	1	20.2	0.00	0.00	0.00										20						
23	17+55	X		12	I	Nyloplast Catch Basin, 18"	42	1.4	795.39	795.17	797.74	75	1	1	9.3	0.00	0.00	0.00										22						
24	18+02	X		12	II	Nyloplast Catch Basin, 18"	47	1.4	795.63	795.39	797.98			See Sheet 13			10.01	2.79	-0.07									23						
25	18+26	X		12	I	Nyloplast Catch Basin, 18"	24	1.2	795.75	795.63	797.93			See Sheet 13			5.11	1.27	-0.07									24						
26	18+98	X		12	II	Nyloplast Catch Basin, 18"	72	1.2	796.11	795.75	798.30			See Sheet 13			15.33	3.83	-0.21									25						
27	19+01	X		12	I	Nyloplast Catch Basin, 18"	12	1.8	796.17	796.11	799.00			See Sheet 13			2.56	1.04	0.04									26						
	TOTALS														194	311	32	3																

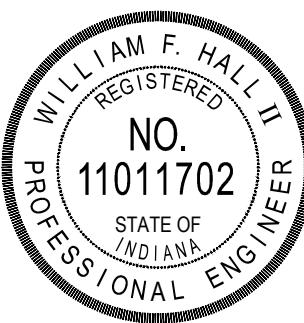
*Pipe Type I is solid wall Polyethylene or PVC pipe and Pipe Type II is perforated PVC pipe

SHEET SIGN & POST SUMMARY

SHEET SIGN & POST SUMMARY												
SIGN							POST				Remarks	
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (ft²)			SQUARE					
							2" X 2" - 12 GA. (TYPE 2)			2 1/4" X 2 1/4" - 12 GA. (TYPE 1)		
							REINFORCED ANCHOR			REINFORCED ANCHOR		
							POST LENGTH (FT.)			POST LENGTH (FT.)		
							1	2	TOTAL	1		TOTAL
LINE "A"												
	18+71	W11-2	30 x 30	6.25					0.0	On Solar Powered Flashing Beacon		
		W16-7P	24 x 12	2.00						On Solar Powered Flashing Beacon		
	18+93	W11-2	30 x 30	6.25					0.0	On Solar Powered Flashing Beacon		
		W16-7P	24 x 12	2.00						On Solar Powered Flashing Beacon		
	10+08	R1-1	30 x 30							Relocate Existing Stop Sign		
				16.50	0.00	0.00		0.0	0.0			

PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE

LOCATION				RIPRAP DITCH			NURSERY SODDING					U MULCHED SEEDING,
FROM STATION	TO STATION	LEFT	CROSS RIGHT	RIPRAP, REVETMENT	RIPRAP, CLASS 1	GEOTEXTILES, TYPE 1A	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	
				TONS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS
9+85 "A"	19+75 "A"	X										857.5
23+00 "A"	29+75 "A"		X									465.2
TOTALS				0		0						1323



RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER

11/19/21
DATE

DESIGNED: C.M.

DRAWN: T.B.

CHECKED: W.F.H.

CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS

MISCELLANEOUS TABLES

HORIZONTAL SCALE

N/A

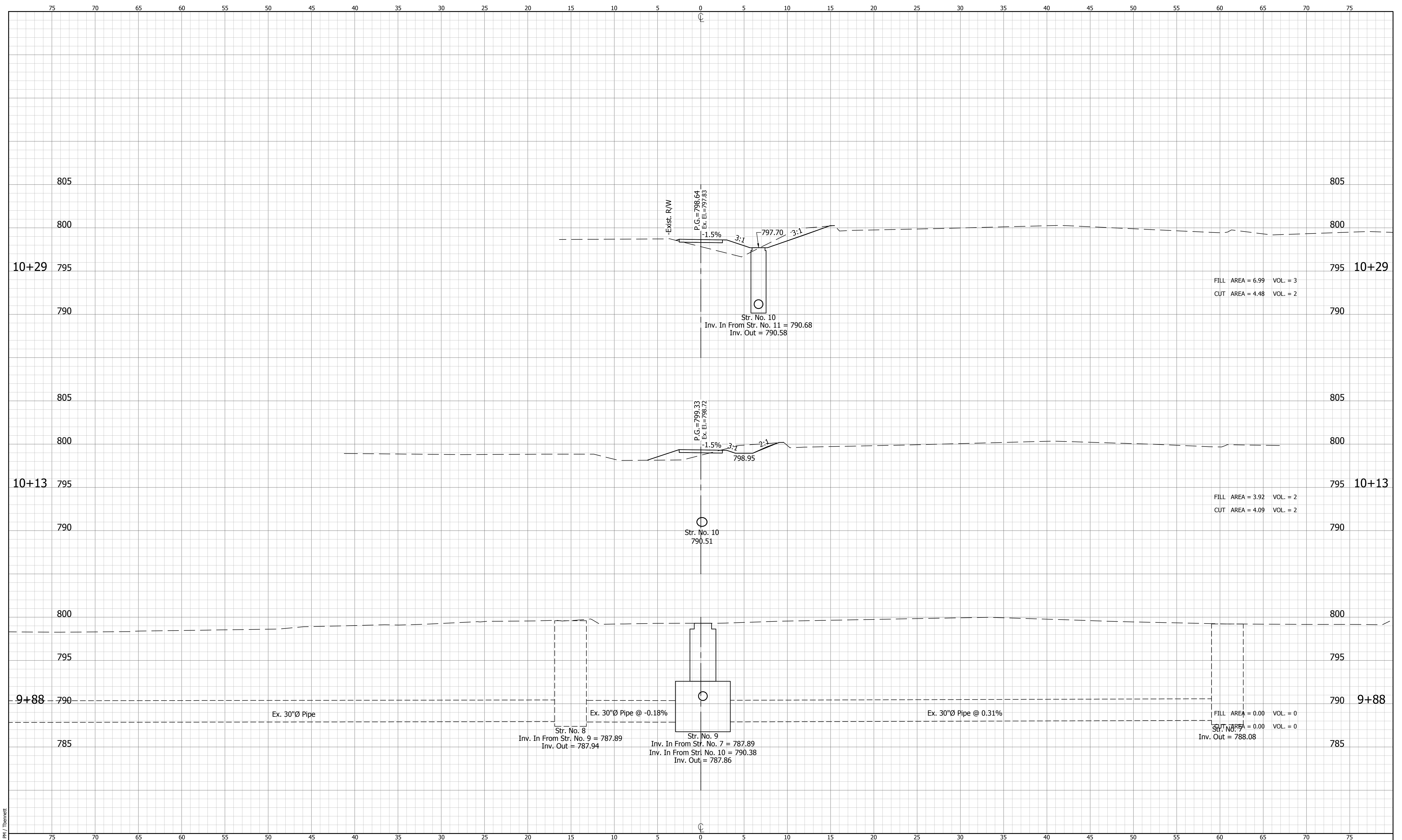
VERTICAL SCALE

N/A

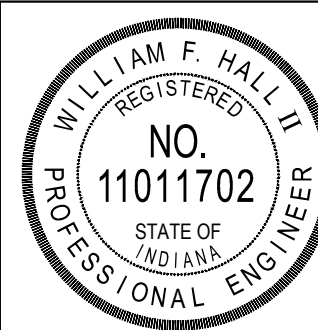
SURVEY BOOK

CONTRACT

BRIDGE FILE



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CHECKED: _____ W.F.H.

William Hall II
DESIGN ENGINEER

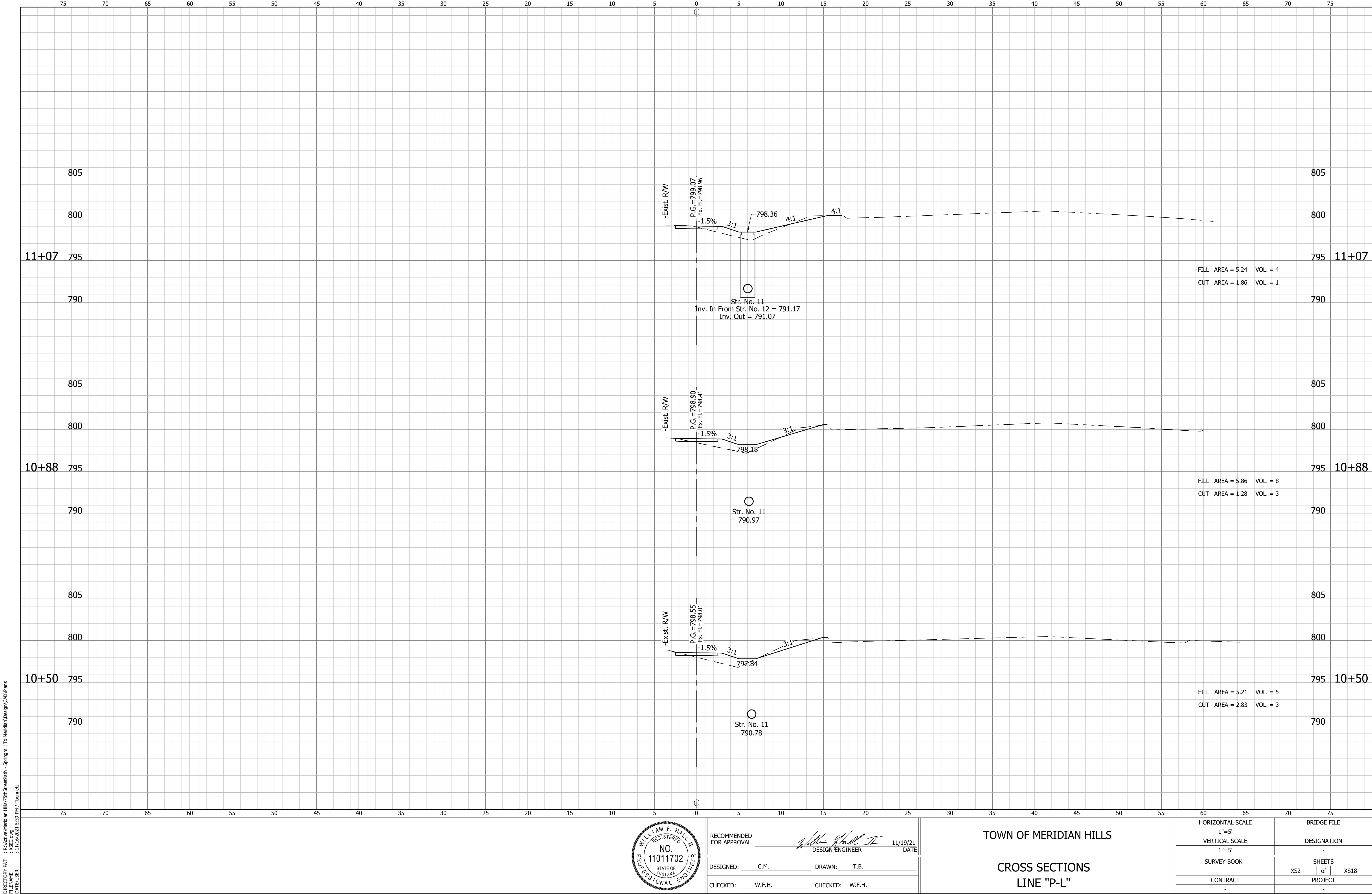
DESIGN ENGINEER

11/19/21
DATE

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE	BRIDGE FILE		
1"=5'			
VERTICAL SCALE	DESIGNATION		
1"=5'	-		
SURVEY BOOK	SHEETS		
	XS1	of	XS18
CONTRACT	PROJECT		



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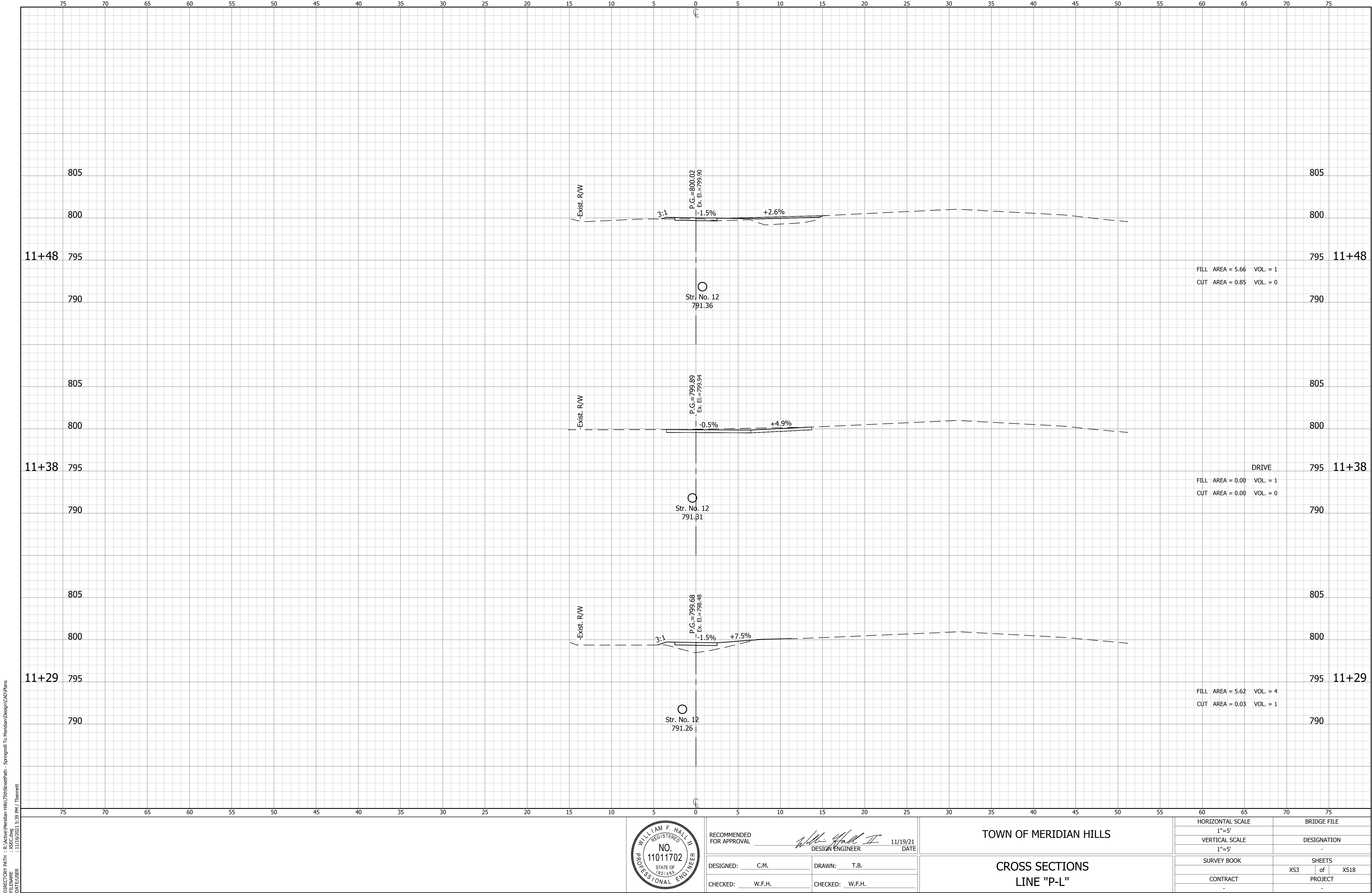


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CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT -	XS2 of XS18 PROJECT



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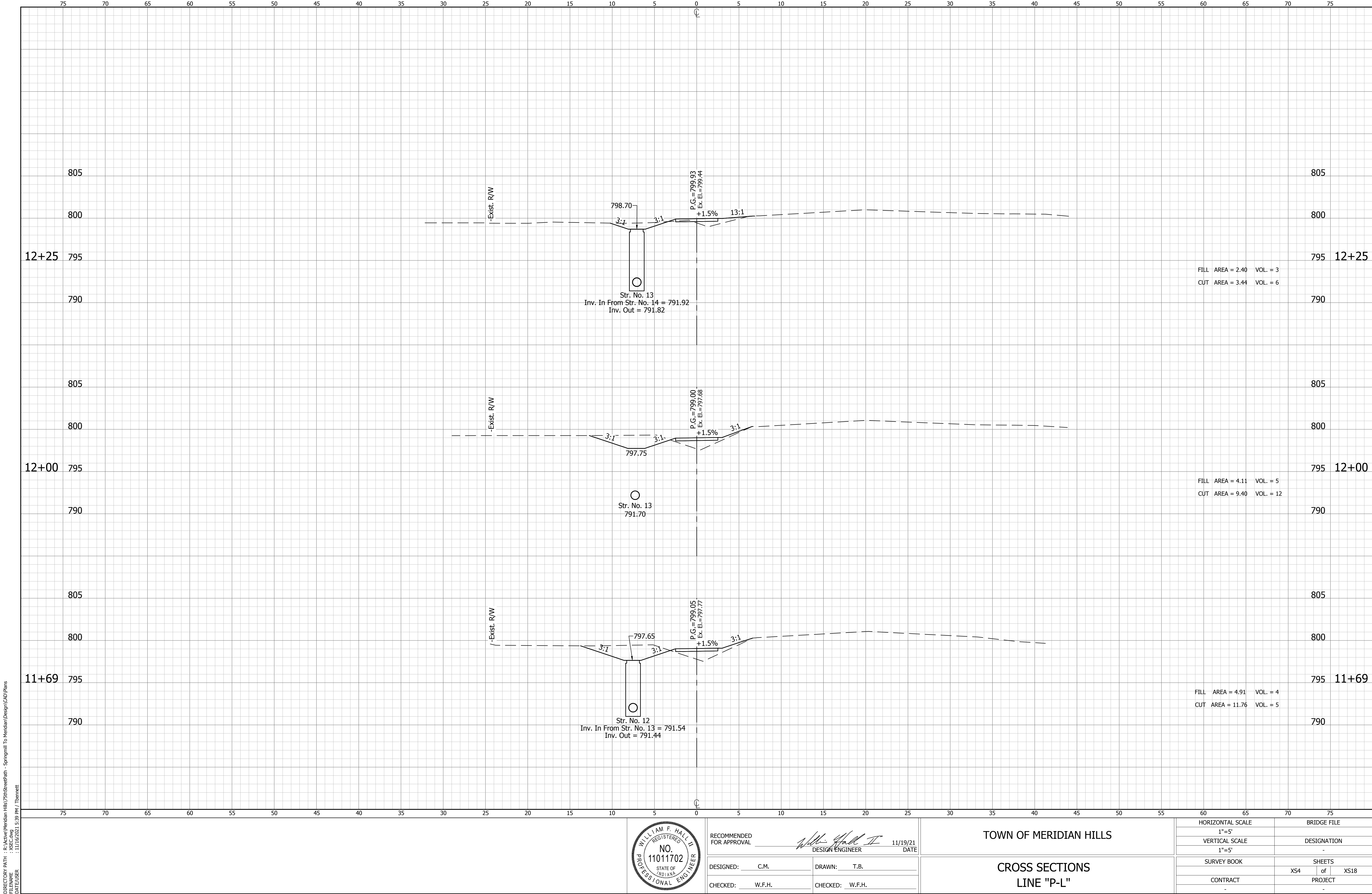


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	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT -	XS3 of XS18 PROJECT



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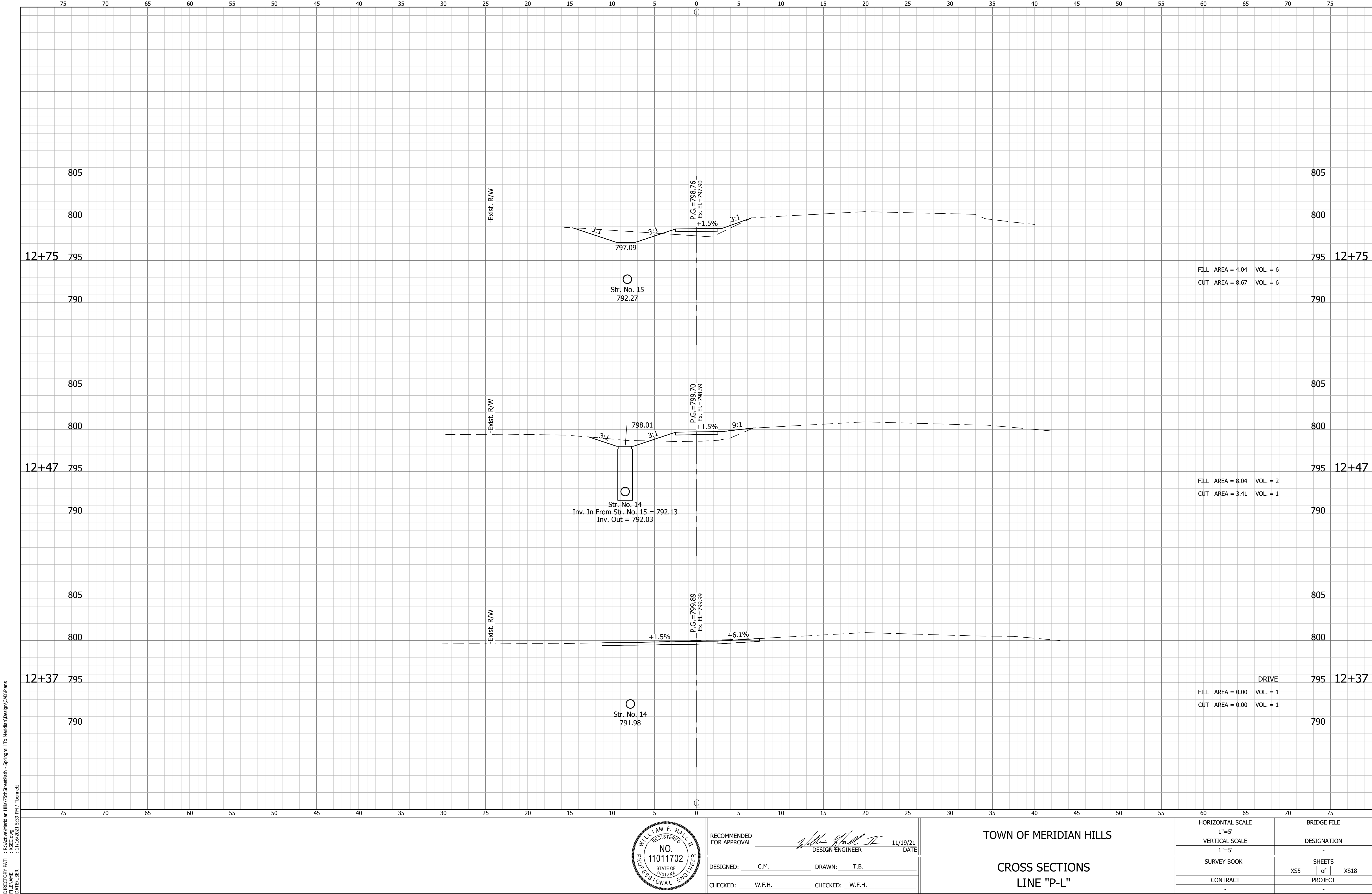


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CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS4 of XS18 PROJECT



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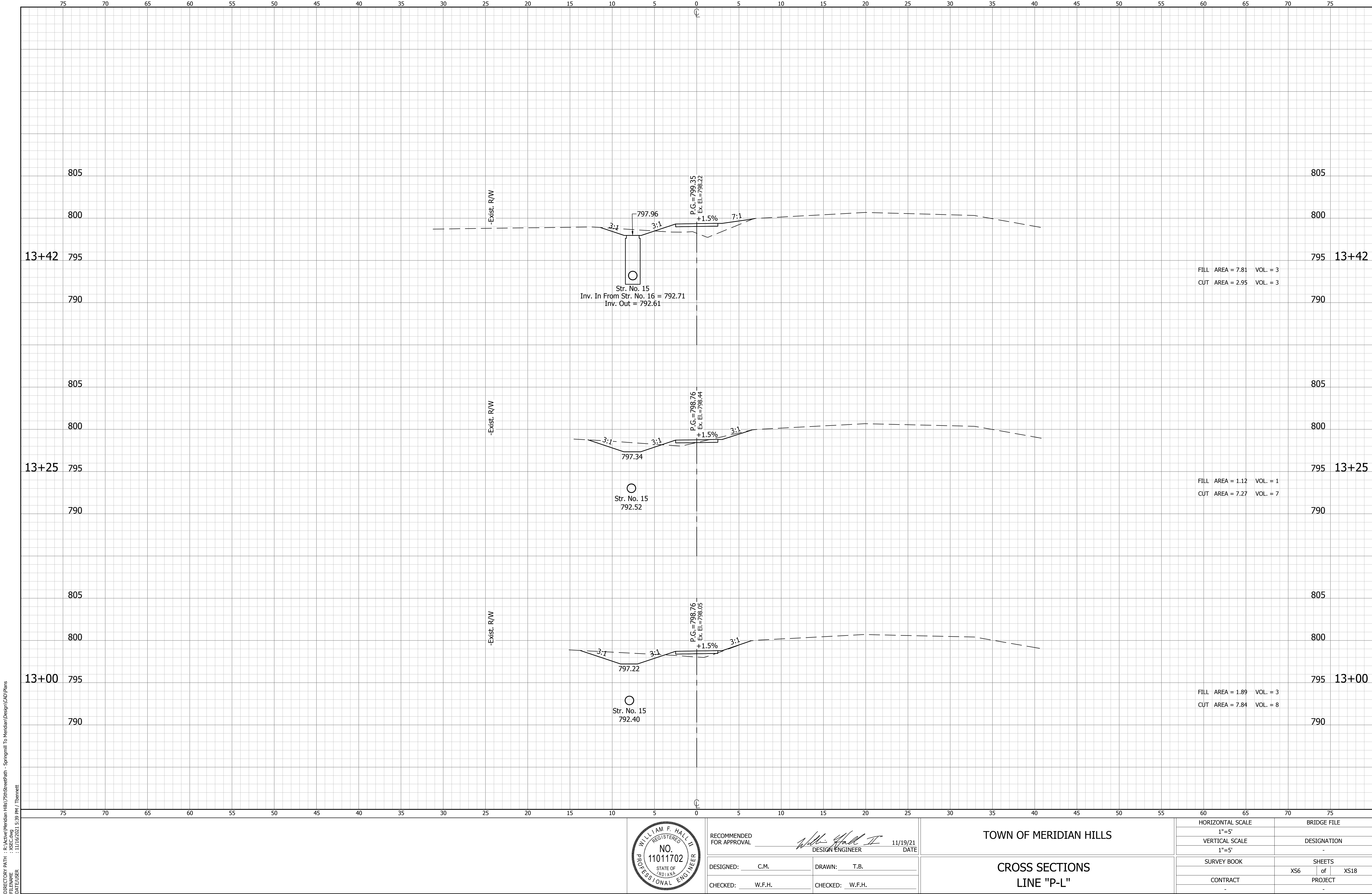


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CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XSS of XS18 PROJECT

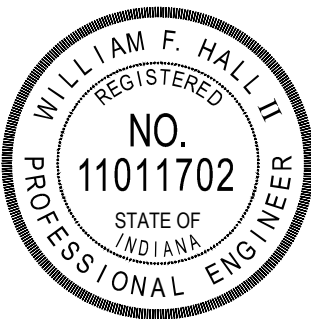


FILL AREA = 7.81 VOL. = 3
CUT AREA = 2.95 VOL. = 3

FILL AREA = 1.12 VOL. = 1
CUT AREA = 7.27 VOL. = 7

FILL AREA = 1.89 VOL. = 3
CUT AREA = 7.84 VOL. = 8

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DATE/USER : 11/16/2021 5:39 PM / Tbenett



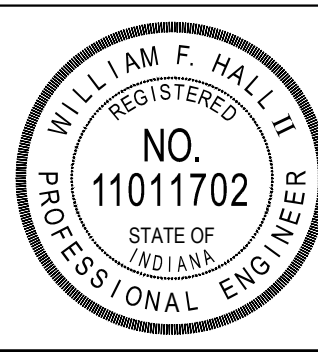
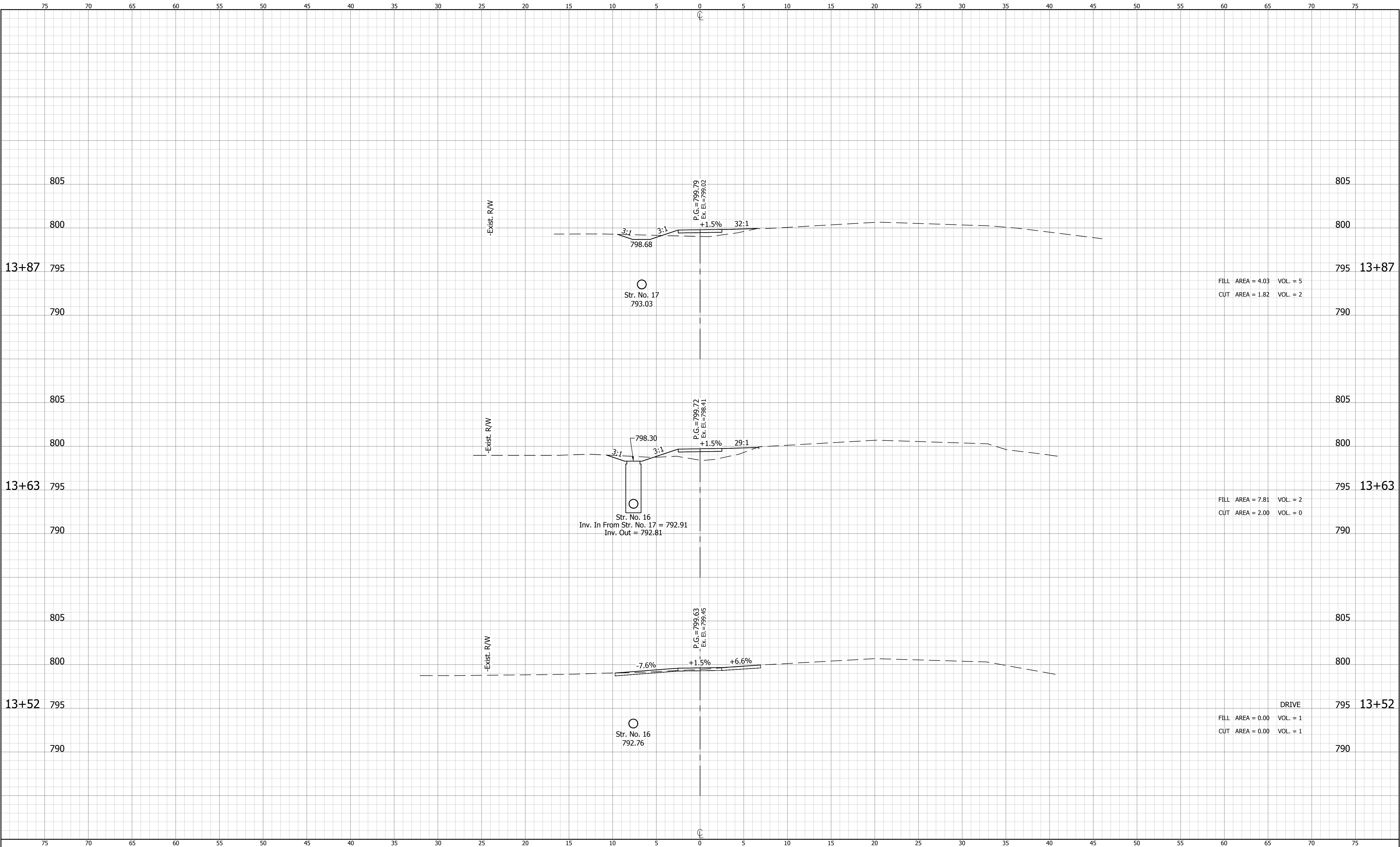
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	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE	BRIDGE FILE	
1"=5'		
VERTICAL SCALE	DESIGNATION	
1"=5'	-	
SURVEY BOOK	SHEETS	
	XS6 of XS18	
CONTRACT	PROJECT	
-	-	

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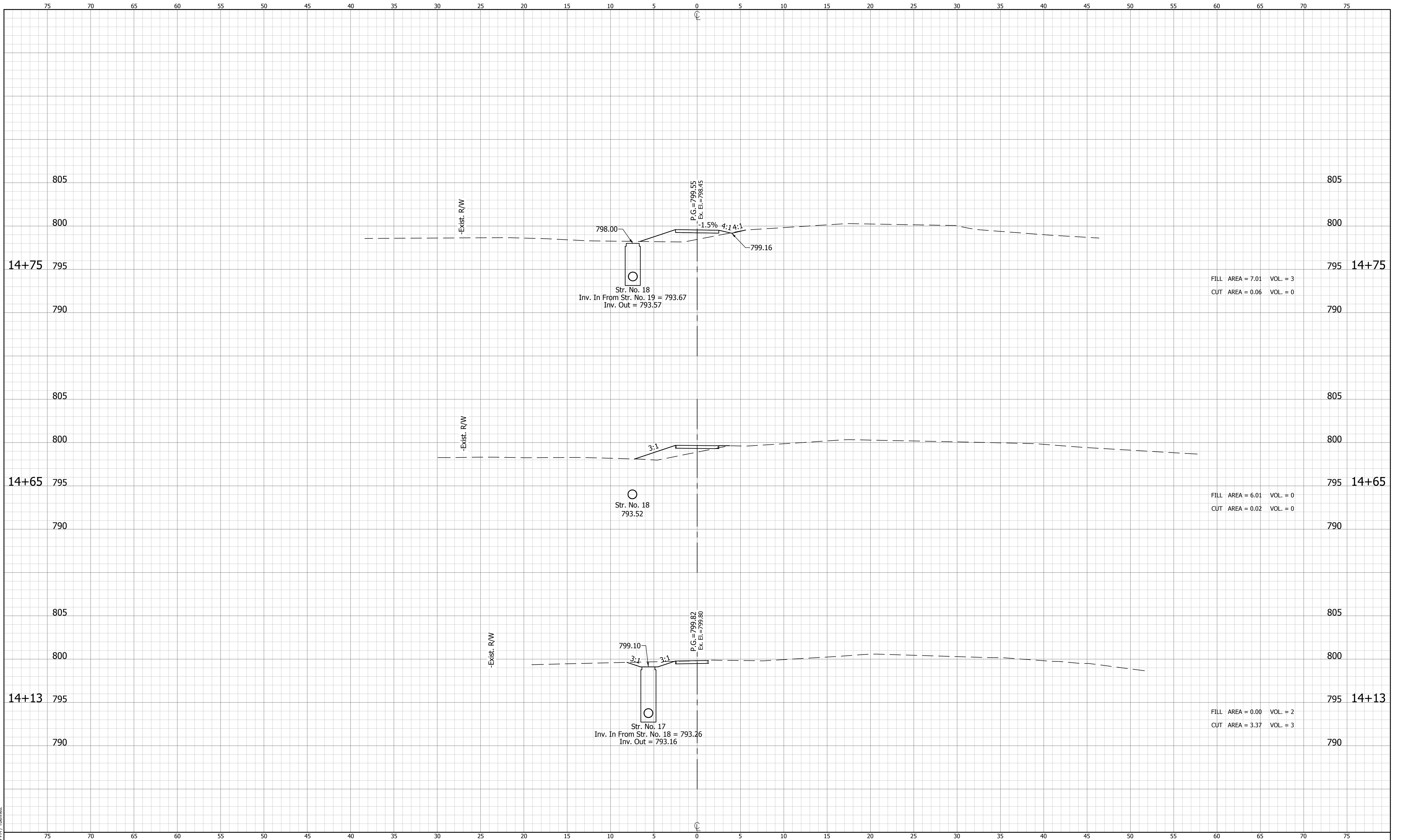
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	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS7 of XS18 PROJECT

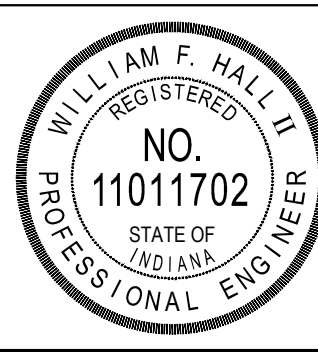
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FILE NAME : 72nd Street Path - Springfield To Meridian.dwg
DATE/USER : 11/16/2021 5:39 PM / Tbennett



FILL AREA = 7.01 VOL. = 3
CUT AREA = 0.06 VOL. = 0

FILL AREA = 6.01 VOL. = 0
CUT AREA = 0.02 VOL. = 0

FILL AREA = 0.00 VOL. = 2
CUT AREA = 3.37 VOL. = 3



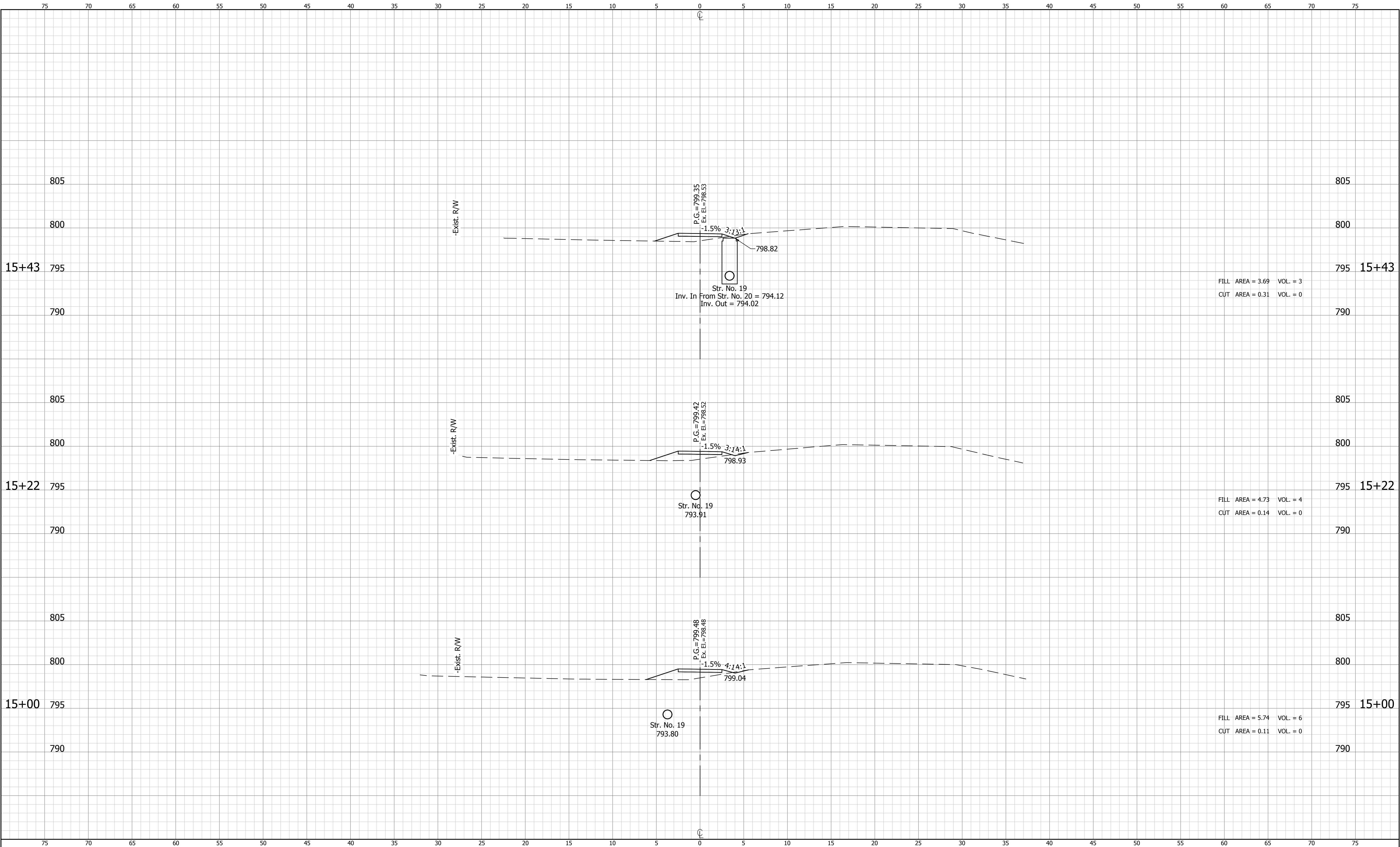
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DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS8 of XS18 PROJECT

DIRECTORY PATH : R:\Active\Meridian Hills\7501\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 7501-SPRINGFIELD TO MERIDIAN-PLAN
DATE/USER : 11/16/2021 5:39 PM / Tbennett



FILL AREA = 3.69 VOL. = 3
CUT AREA = 0.31 VOL. = 0

FILL AREA = 4.73 VOL. = 4
CUT AREA = 0.14 VOL. = 0

FILL AREA = 5.74 VOL. = 6
CUT AREA = 0.11 VOL. = 0



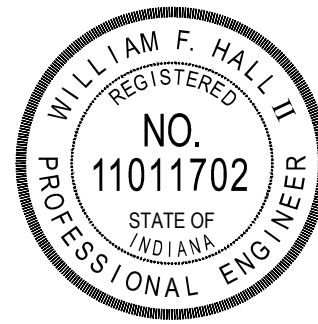
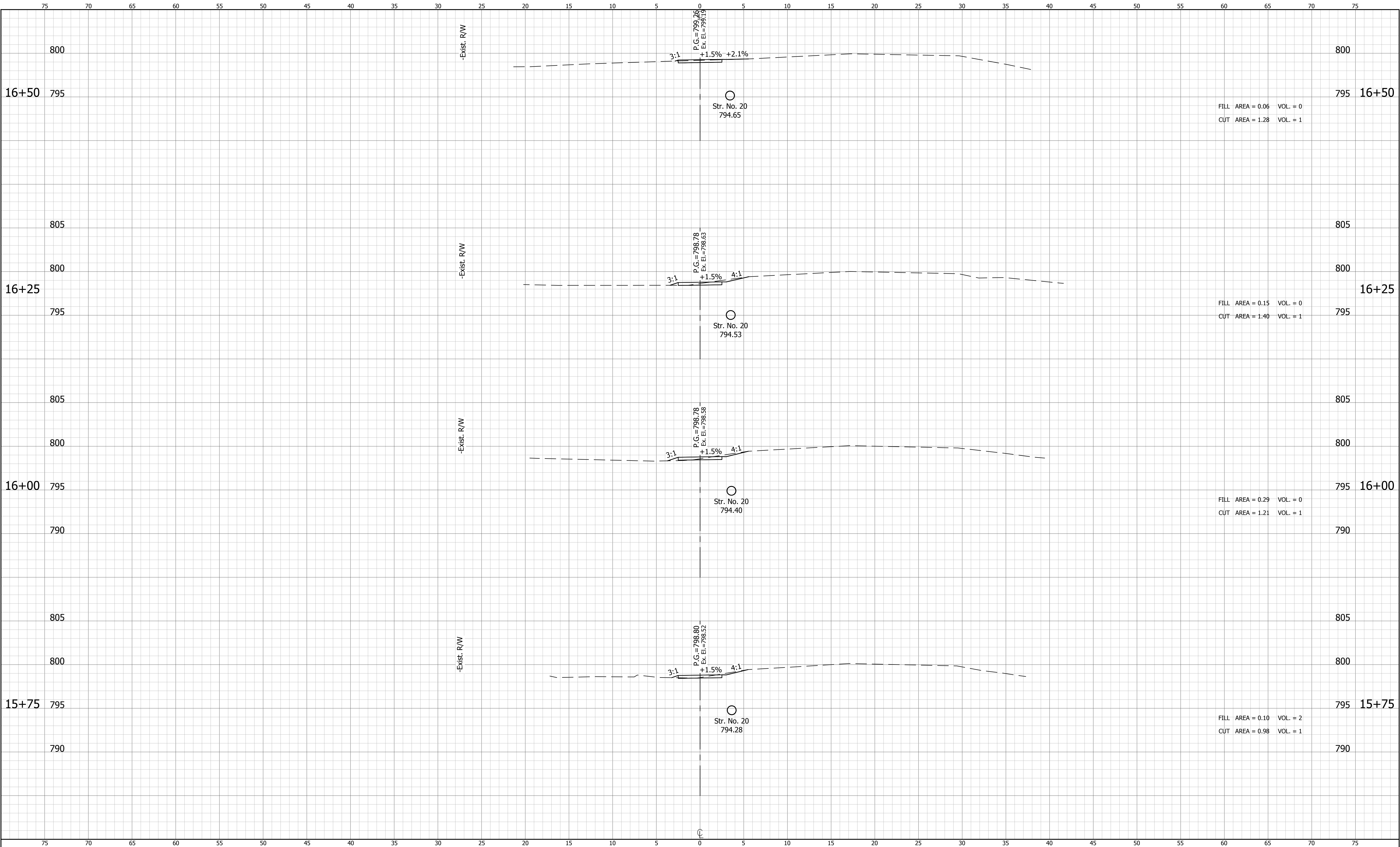
RECOMMENDED FOR APPROVAL *Willam F. Hall II* 11/19/21
DESIGN ENGINEER DATE
DESIGNED: C.M. DRAWN: T.B.
CHECKED: W.F.H. CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS9 of XS18 PROJECT

DIRECTORY PATH : R:\Active\Meridian Hills\7501\StreetPath - Springmill To Meridian\Design\CAD\Plans
FILE NAME : 7501-SPRINGMILL TO MERIDIAN-PLAN
DATE/USER : 11/16/2021 5:39 PM / Tbennett

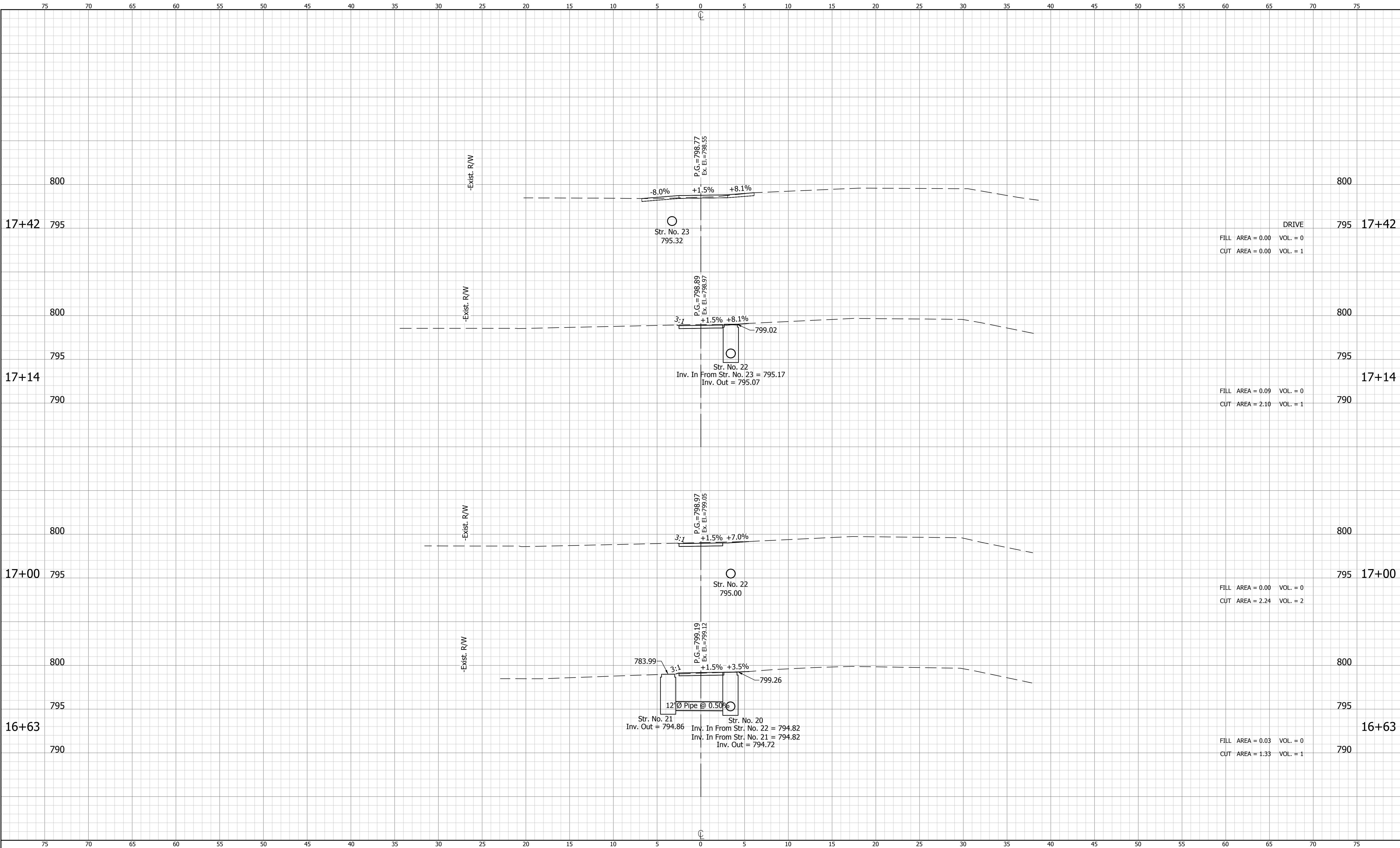


RECOMMENDED FOR APPROVAL *Willam F. Hall II* 11/19/21
DESIGN ENGINEER DATE
DESIGNED: C.M. DRAWN: T.B.
CHECKED: W.F.H. CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS
CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT -	XS10 of XS18 PROJECT

DIRECTORY PATH : R:\Active\Meridian Hills\7501\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 7501_StreetPath - Springfield To Meridian.dwg
DATE/USER : 11/16/2021 5:39 PM / Tbmnett



DRIVE
FILL AREA = 0.00 VOL. = 0
CUT AREA = 0.00 VOL. = 1

FILL AREA = 0.09 VOL. = 0
CUT AREA = 2.10 VOL. = 1

FILL AREA = 0.00 VOL. = 0
CUT AREA = 2.24 VOL. = 2

FILL AREA = 0.03 VOL. = 0
CUT AREA = 1.33 VOL. = 1



RECOMMENDED
FOR APPROVAL

W.F. Hall II
DESIGN ENGINEER

11/19/21
DATE

DESIGNED: C.M.

DRAWN: T.B.

CHECKED: W.F.H.

CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE

1"=5'

VERTICAL SCALE

1"=5'

SURVEY BOOK

CONTRACT

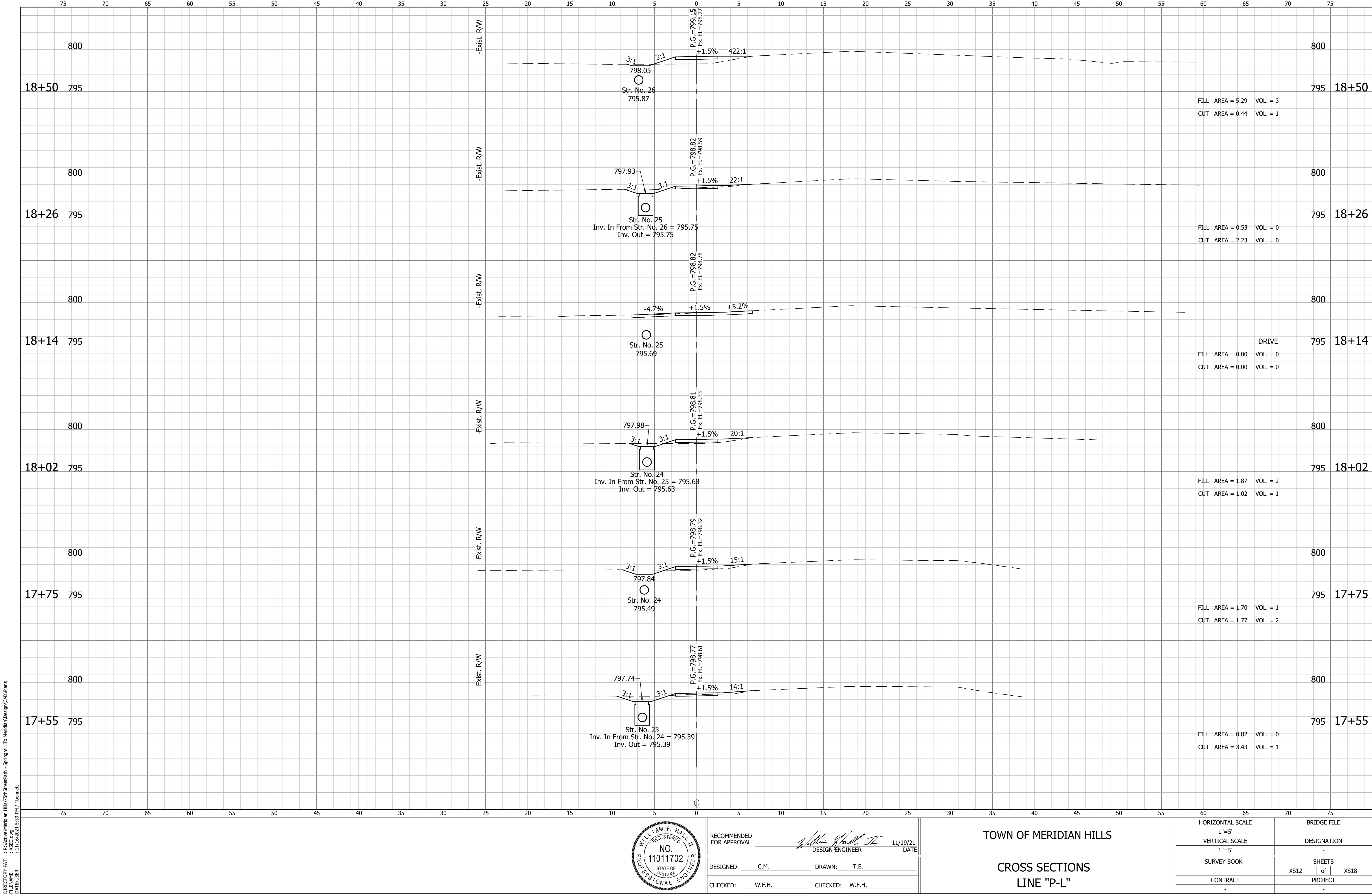
BRIDGE FILE

DESIGNATION

SHEETS

XS11 of XS18

PROJECT



DIRECTORY PATH : R:\Active\Meridian Hills\7501\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 7501_StreetPath - Springfield To Meridian.dwg
DATE/USER : 11/16/2021 5:39 PM / Tbennett



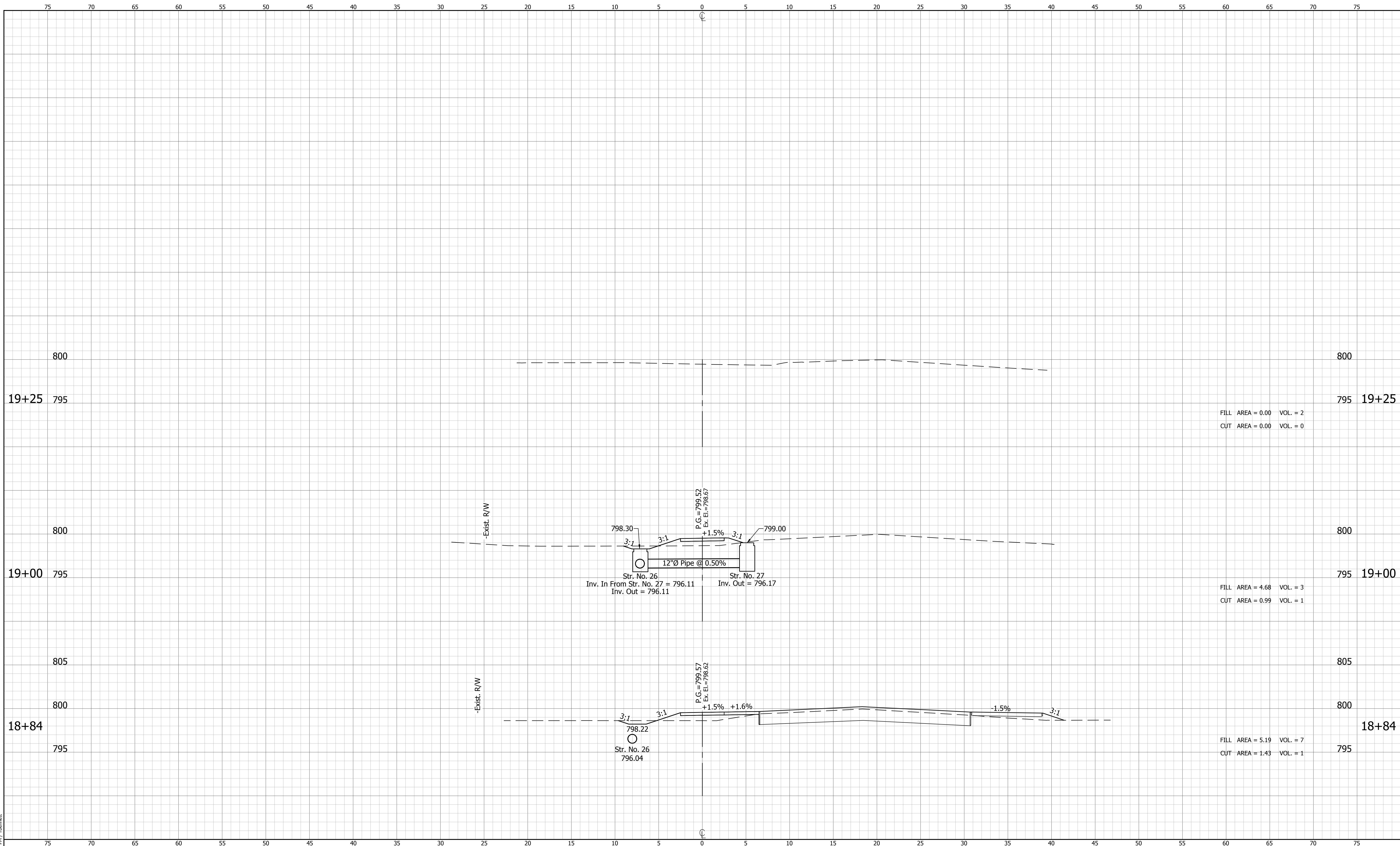
RECOMMENDED FOR APPROVAL	<i>William F. Hall II</i>	11/19/21
	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT -	XS12 of XS18 PROJECT

DIRECTORY PATH : R:\Active\Meridian Hills\7501\StreetPath - Springmill To Meridian\Design\CAD\Plans
DATE/USER : 11/16/2021 5:39 PM / Tbennett



FILL AREA = 0.00 VOL. = 2
CUT AREA = 0.00 VOL. = 0

FILL AREA = 4.68 VOL. = 3
CUT AREA = 0.99 VOL. = 1

FILL AREA = 5.19 VOL. = 7
CUT AREA = 1.43 VOL. = 1

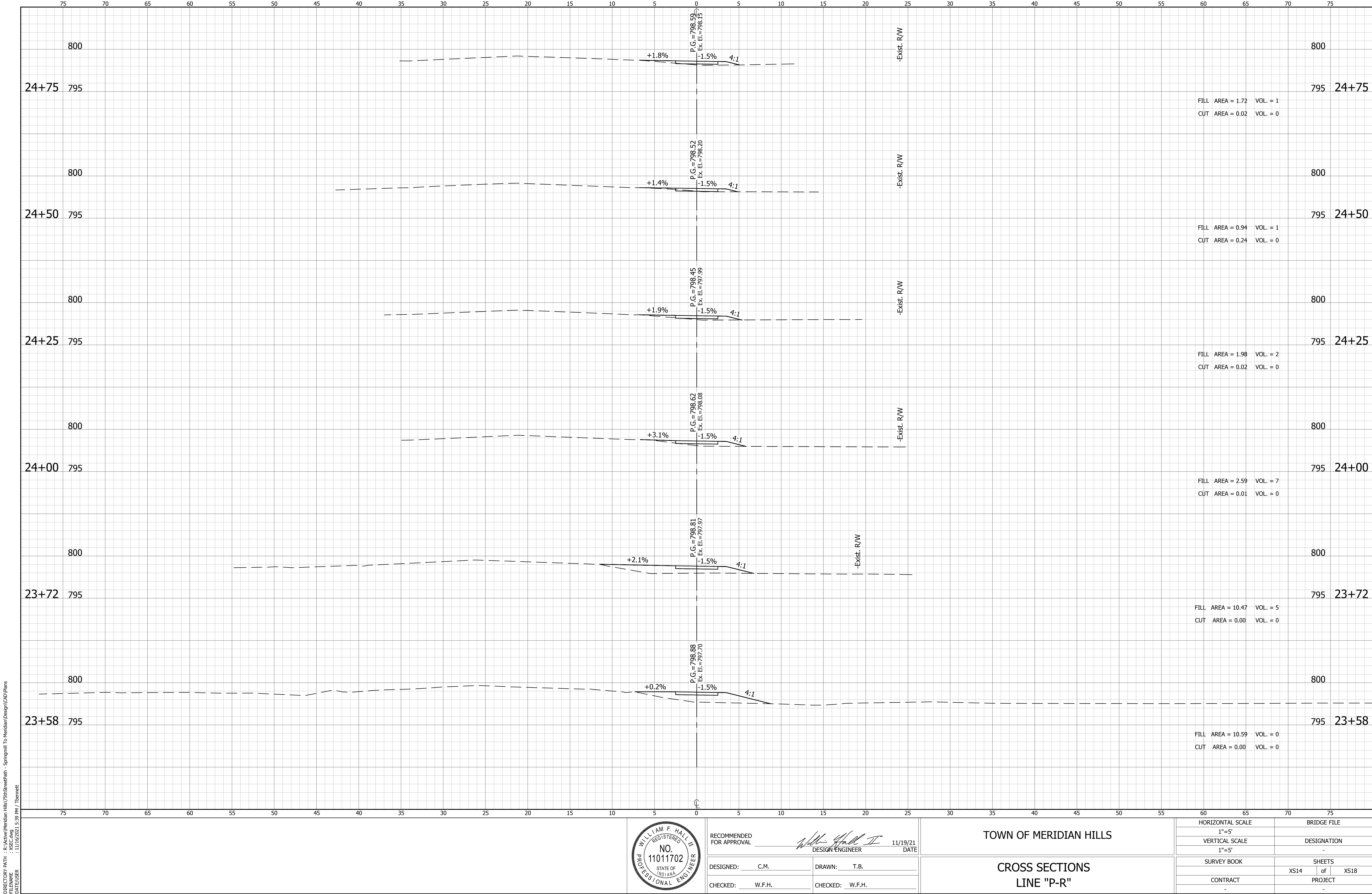


RECOMMENDED FOR APPROVAL	<i>Will F. Hall II</i> DESIGN ENGINEER	11/19/21 DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

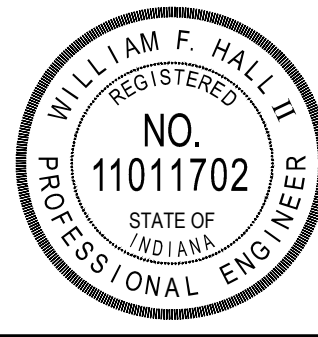
TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-L"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS13 of XS18 PROJECT



DIRECTORY PATH : R:\Active\Meridian Hills\7201\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 7201\StreetPath - Springfield To Meridian\Design\CAD\Plans
DATE/USER : 11/16/2021 5:39 PM / Tbennett

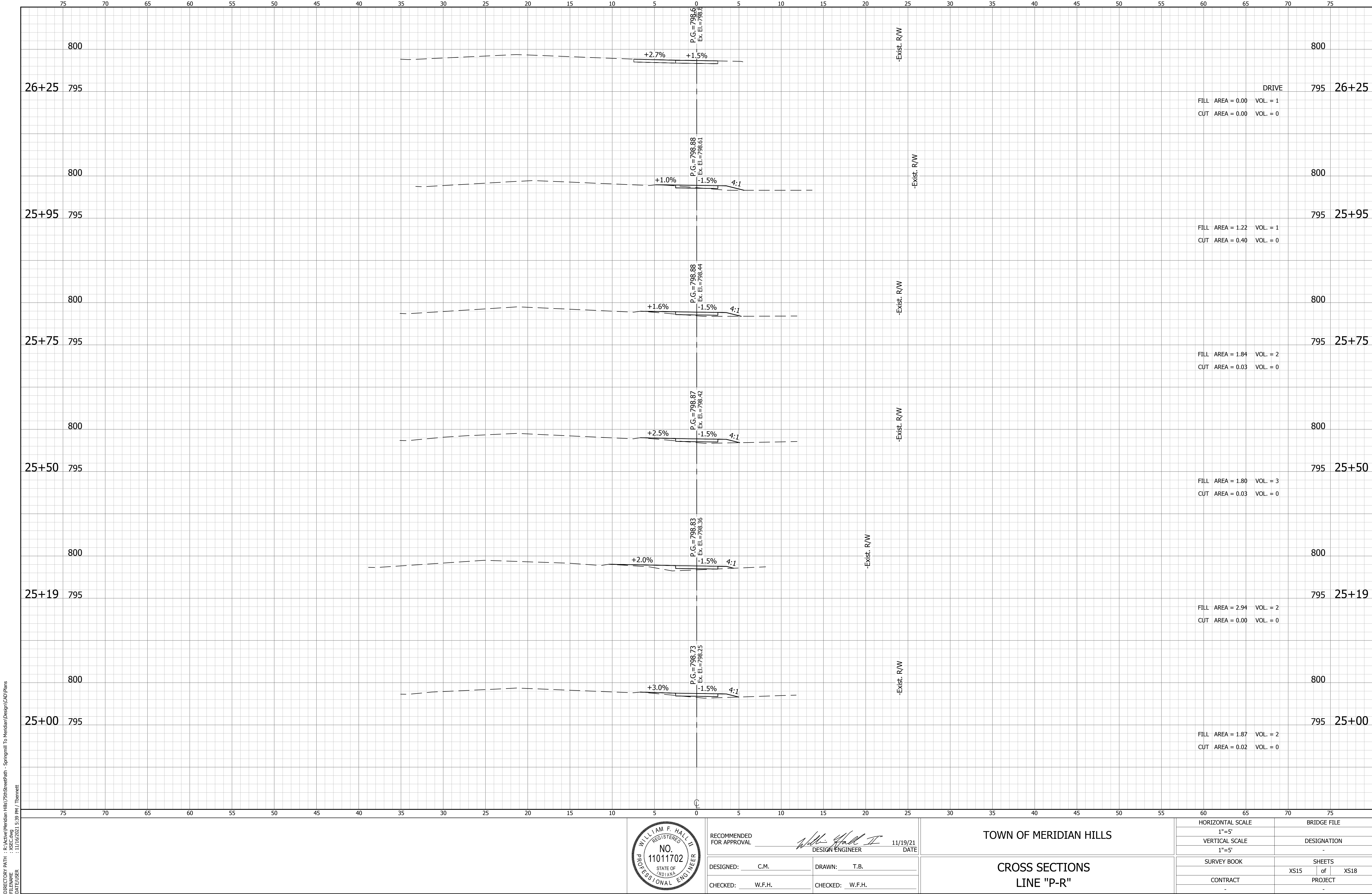


RECOMMENDED FOR APPROVAL	<i>William F. Hall II</i> DESIGN ENGINEER	11/19/21 DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-R"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS14 of XS18 PROJECT
-	-



DIRECTORY PATH : R:\Active\Meridian Hills\2501\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 2501_StreetPath - Springfield To Meridian.dwg
DATE/USER : 11/16/2021 5:39 PM / Tbennett



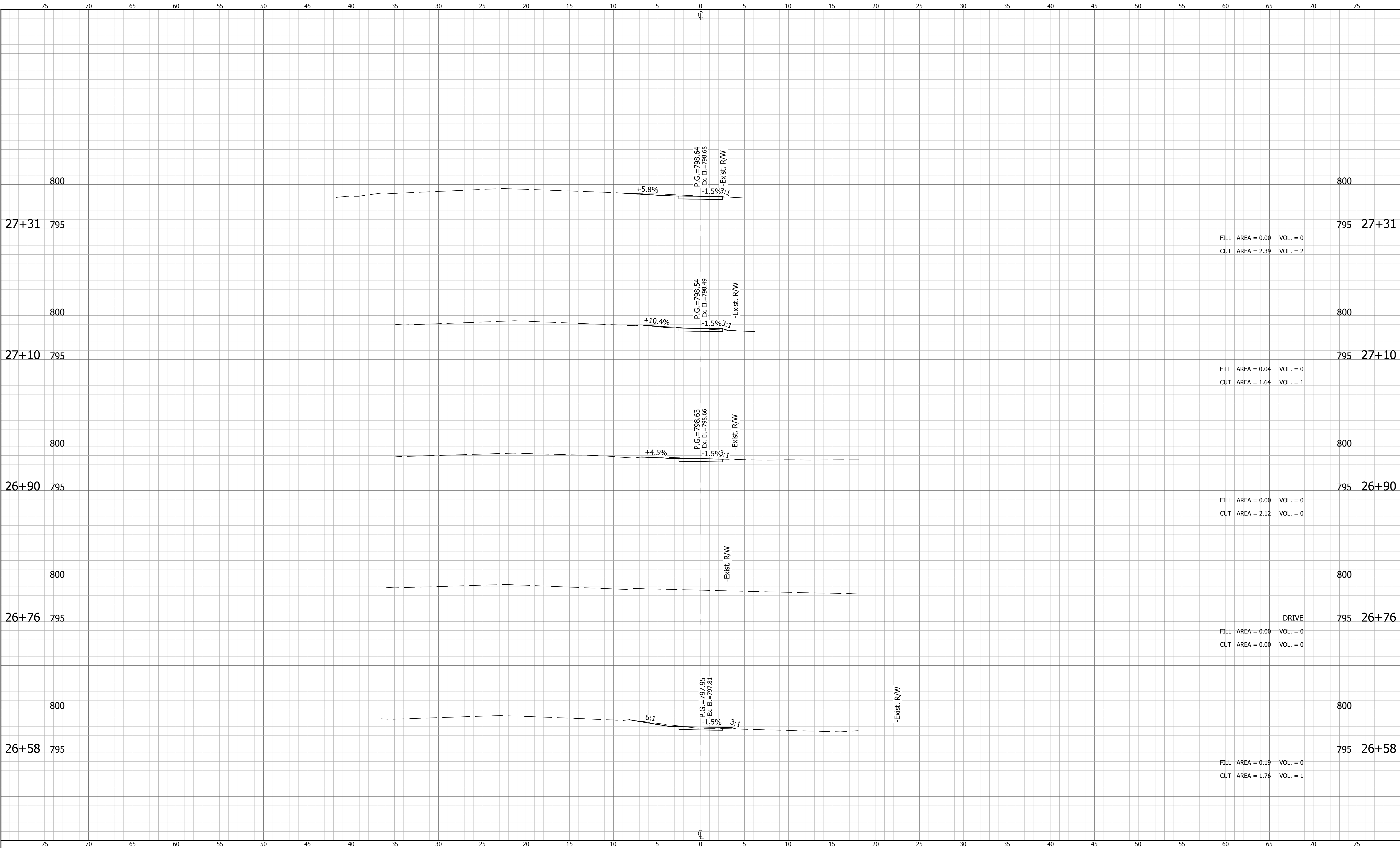
RECOMMENDED FOR APPROVAL	<i>William F. Hall II</i> DESIGN ENGINEER	11/19/21 DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-R"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS15 of XS18 PROJECT

DIRECTORY PATH : R:\Active\Meridian Hills\7501\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 7501-StreetPath - Springfield To Meridian.dwg
DATE/USER : 11/16/2021 5:39 PM / Tbennett



FILL AREA = 0.00 VOL. = 0
CUT AREA = 2.39 VOL. = 2

FILL AREA = 0.04 VOL. = 0
CUT AREA = 1.64 VOL. = 1

FILL AREA = 0.00 VOL. = 0
CUT AREA = 2.12 VOL. = 0

DRIVE
FILL AREA = 0.00 VOL. = 0
CUT AREA = 0.00 VOL. = 0

FILL AREA = 0.19 VOL. = 0
CUT AREA = 1.76 VOL. = 1



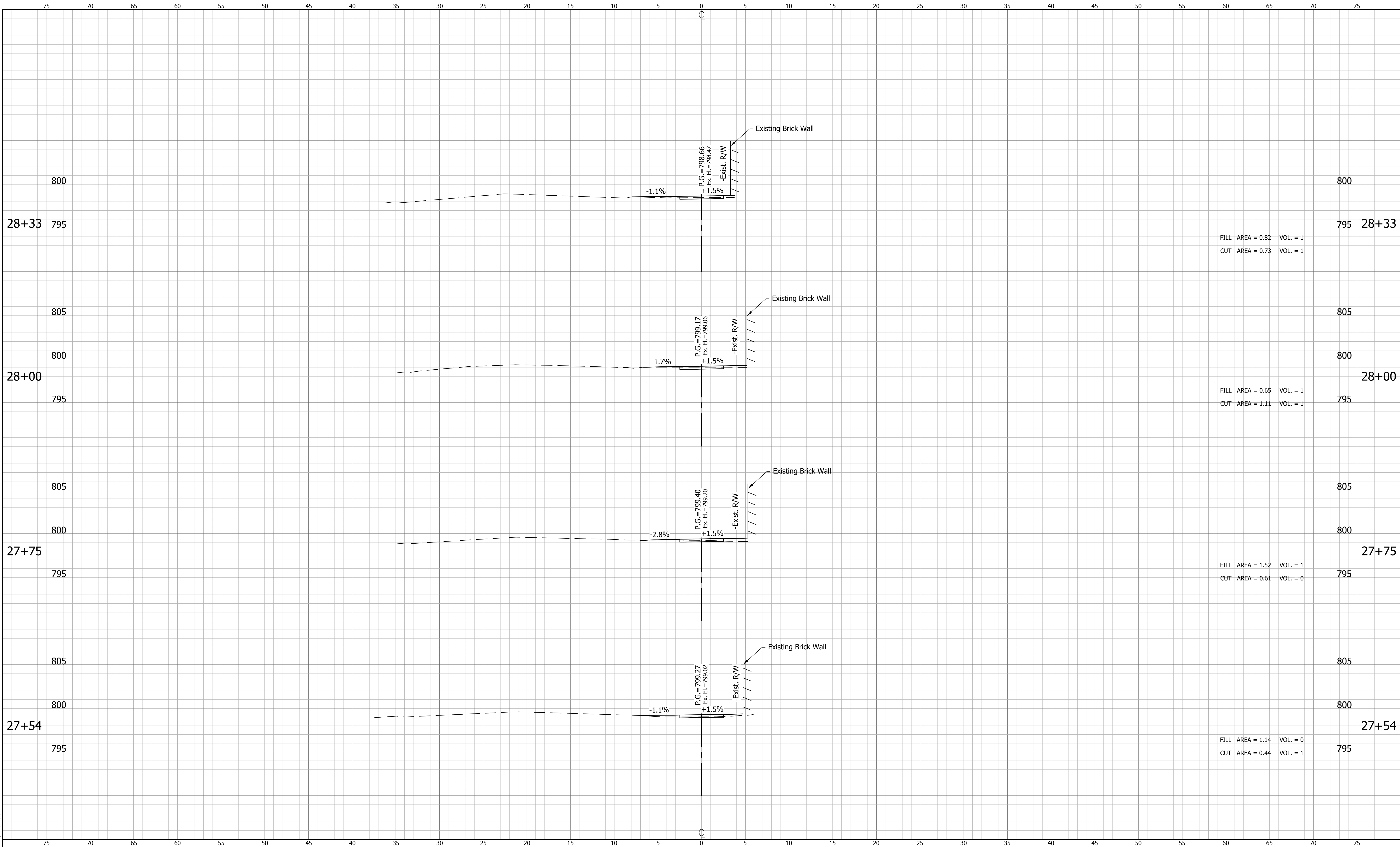
RECOMMENDED FOR APPROVAL
DESIGNED: C.M. DRAWN: T.B.
CHECKED: W.F.H. CHECKED: W.F.H.
11/19/21
DATE

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-R"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE
VERTICAL SCALE 1"=5'	DESIGNATION -
SURVEY BOOK	SHEETS
CONTRACT	XS16 of XS18 PROJECT

DIRECTORY PATH : R:\Active\Meridian Hills\7501\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 7501_StreetPath - Springfield To Meridian.dwg
DATE/USER : 11/16/2021 5:39 PM / Tbennett



FILL AREA = 0.82 VOL. = 1
CUT AREA = 0.73 VOL. = 1

FILL AREA = 0.65 VOL. = 1
CUT AREA = 1.11 VOL. = 1

FILL AREA = 1.52 VOL. = 1
CUT AREA = 0.61 VOL. = 0

FILL AREA = 1.14 VOL. = 0
CUT AREA = 0.44 VOL. = 1



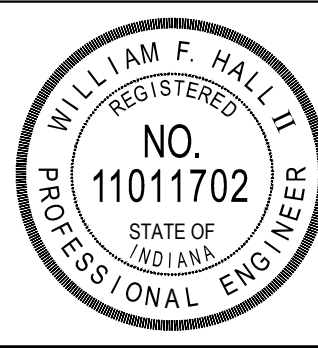
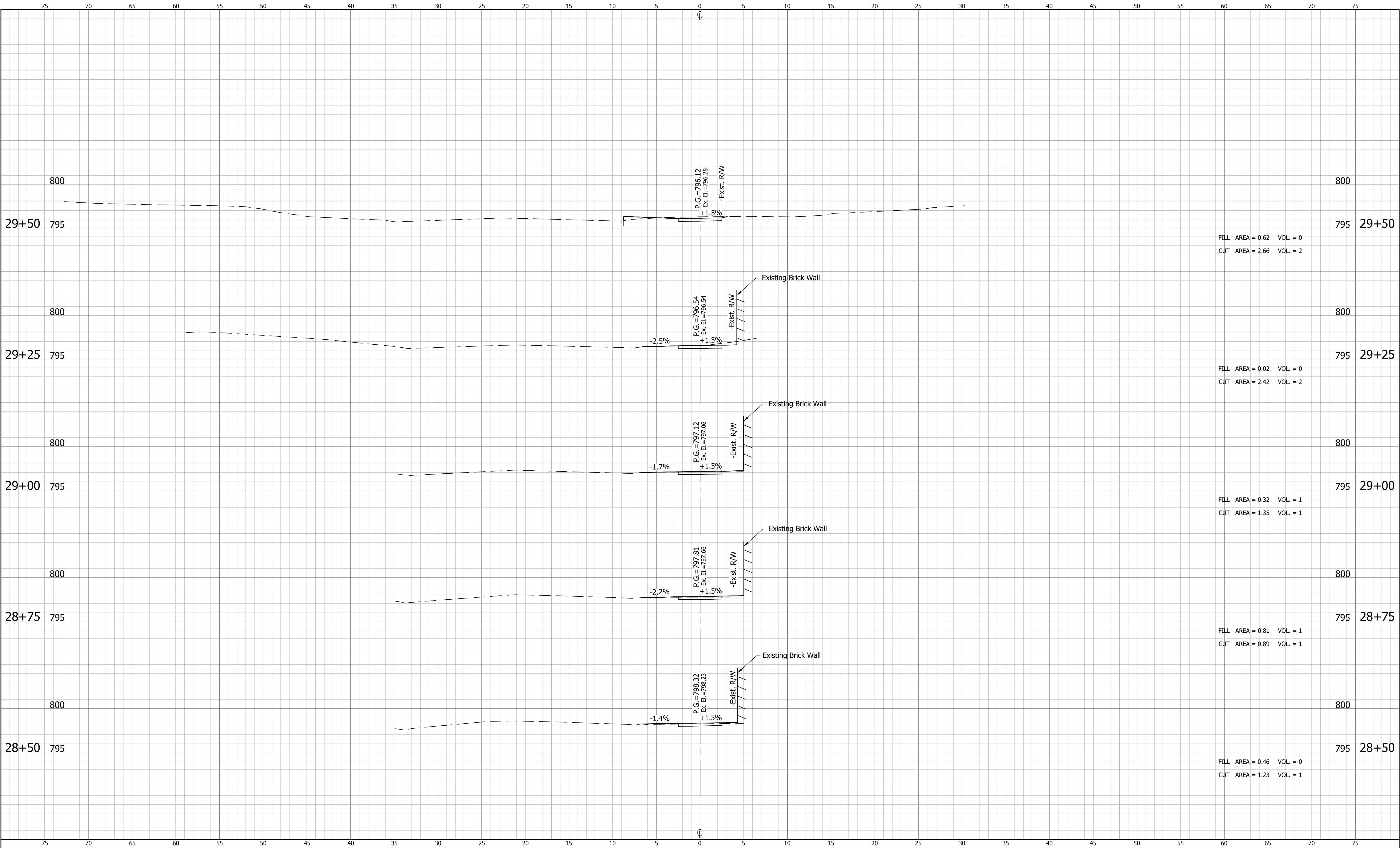
RECOMMENDED FOR APPROVAL *William F. Hall II* 11/19/21
DESIGN ENGINEER DATE
DESIGNED: C.M. DRAWN: T.B.
CHECKED: W.F.H. CHECKED: W.F.H.

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-R"

HORIZONTAL SCALE	BRIDGE FILE	
1"=5'		
VERTICAL SCALE	DESIGNATION	
1"=5'	-	
SURVEY BOOK	SHEETS	
CONTRACT	XS17 of XS18	PROJECT
-	-	

DIRECTORY PATH : R:\Active\Meridian Hills\2501\StreetPath - Springfield To Meridian\Design\CAD\Plans
FILE NAME : 2501-SPRINGFIELD TO MERIDIAN-PLAN
DATE/USER : 11/16/2021 5:39 PM / Tbennett



RECOMMENDED FOR APPROVAL	<i>William F. Hall II</i>	11/19/21
	DESIGN ENGINEER	DATE
DESIGNED: C.M.	DRAWN: T.B.	
CHECKED: W.F.H.	CHECKED: W.F.H.	

TOWN OF MERIDIAN HILLS

CROSS SECTIONS
LINE "P-R"

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	
VERTICAL SCALE	DESIGNATION
1"=5'	-
SURVEY BOOK	SHEETS
CONTRACT	XS18 of XS18
-	PROJECT
-	-