CITY OF SOUTH BURLINGTON
PUBLIC WORKS

southburlington
VERMONT

PROPOSED IMPROVEMENT
LINDENWOOD DRIVE (TH 46)
STORMWATER DETENTION POND

PROJECT LOCATION: THE PROJECT IS LOCATED ALONG LINDENWOOD DRIVE IN SOUTH BURLINGTON, VERMONT.

PROJECT DESCRIPTION: CLOSED DRAINAGE ALONG LINDENWOOD DRIVE TO A PROPOSED DETENTION POND ADJACENT TO THE BIKEPATH. CONNECTION OF EXISTING BREWER PARKWAY CLOSED DRAINAGE SYSTEM TO THE PROPOSED DETENTION POND.

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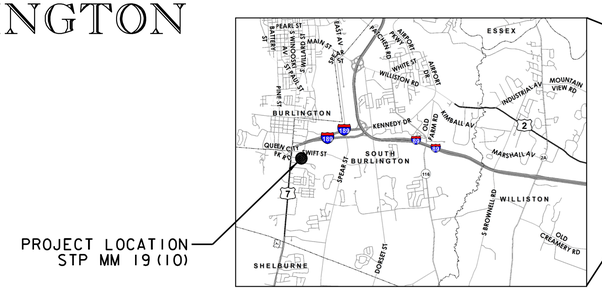

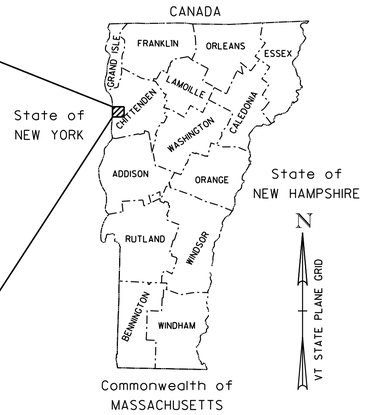

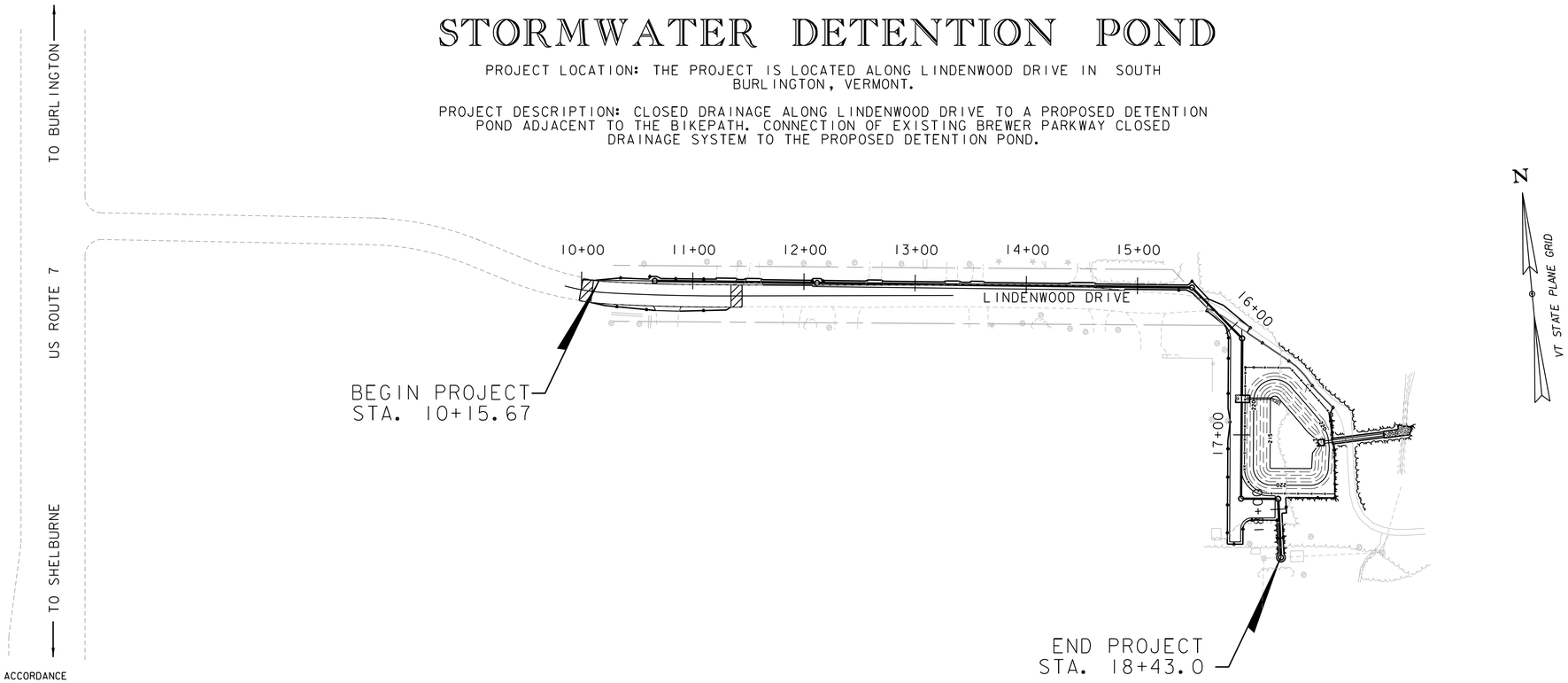

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : VERMONT SURVEY AND ENGINEERING JUNE 2019
SURVEYED DATE : OCTOBER 2019

DATUM
VERTICAL: NAVD 83
HORIZONTAL: NAD83 sFT

0 60 120
SCALE IN FEET

STATE OF VERMONT
ISRAEL S. MAYNARD
NO. 69573
CIVIL
LICENSED
PROFESSIONAL ENGINEER

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MUNCIPAL PROJECT MANAGER
APPROVED CHRISTINE GINGRAS DATE _____

PROJECT MANAGER : ISRAEL MAYNARD, P.E.

PROJECT NAME : SOUTH BURLINGTON

PROJECT NUMBER : STP MM 19(10)

SHEET 1 OF 22 SHEETS

GENERAL PROJECT NOTES:

1. THE EXACT LOCATIONS AND DEPTHS OF EXISTING WATER AND SEWER SERVICES ARE UNKNOWN. CONTRACTOR SHALL ANTICIPATE AT LEAST ONE WATER AND ONE SEWER SERVICE FOR EACH BUILDING AND/OR PARCEL, OR AS DEPICTED OTHERWISE ON THE PLANS. WHEN ABLE, THE CITY OF SOUTH BURLINGTON, PUBLIC WORKS DEPARTMENT PERSONNEL WILL TRY TO ASSIST THE CONTRACTOR IN LOCATING EXISTING WATER AND SEWER SERVICES DURING CONSTRUCTION. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATIONS AND SIZES OF ALL EXISTING WATER AND SEWER BUILDING SERVICES AT THE RIGHT-OF-WAY LINE BY EXPLORATORY EXCAVATION PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING WATER AND SEWER MAINS AND SERVICES. PAYMENT OF EXPLORATORY EXCAVATION SHALL BE MADE UNDER ITEM 204.22 TRENCH EXCAVATION OF EARTH, EXPLORATORY.

   IF EXPLORATORY EXCAVATION REVEALS THAT NEW SERVICE CONNECTIONS WILL BE LOCATED IN CONFLICT WITH OTHER PROPOSED INFRASTRUCTURE, INCLUDING TO BUT NOT LIMITED TO DRAINAGE PIPES, CATCH BASINS, UTILITY DUCTS, TRANSFORMERS AND PEDESTALS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE CONSTRUCTION OF SERVICE CONNECTION. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR TO MITIGATE CONFLICTS DUE TO THE CONTRACTOR'S FAILURE TO FORECAST THESE CONFLICTS.

2. CARE SHALL BE TAKEN TO AVOID DAMAGE TO NEARBY FENCES, DRIVEWAYS, BUILDINGS, MONUMENTS, IRON PINS, AND ANY OTHER APPURTENANCES DURING CONSTRUCTION. DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

3. CONTRACTOR SHALL PROVIDE AT LEAST TWO WEEKS NOTICE TO THE CITY AND CHAMPLAIN WATER DISTRICT PRIOR TO BEGINNING WORK. THE CITY WILL PROVIDE NOTICE TO ADJACENT PROPERTY OWNERS AND BUSINESSES. THE CITY WILL INFORM PROPERTY OWNERS OF WORK TO BE COMPLETED. THE CONTRACTOR SHALL WORK WITH PROPERTY OWNERS TO MAINTAIN ACCESS TO PROPERTY AT ALL TIMES. COST TO COMPLETE THIS WORK SHALL BE INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

4. CONTRACTOR SHALL NOTIFY CHAMPLAIN WATER DISTRICT A MINIMUM OF FIVE (5) CALENDAR DAYS PRIOR TO EXCAVATING WITHIN 10 FEET OF CWD WATERMAINS. CONTRACTOR SHALL NOT COMMENCE EXCAVATION WITHIN THIS AREA UNLESS CWD PERSONNEL ARE ONSITE.

5. CONTRACTOR SHALL RESTORE PROPERTY IN AN ACCEPTABLE MANNER SATISFACTORY TO THE ENGINEER IN ACCORDANCE WITH SECTION 107 OF THE VAOT 2018 STANDARD SPECIFICATIONS FOR CONSTRUCTION. TOPSOIL, SEED, FERTILIZER, LIMESTONE AND MULCH SHALL BE PAID PER THEIR RESPECTIVE PAY ITEMS. ANY OTHER WORK OR MATERIALS NECESSARY SHALL BE INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

6. PAYMENT FOR SAW CUTTING SHALL BE INCIDENTAL TO ITEM 203.15.

PAVING NOTES:

1. PAVEMENT PATCHING FOR ROADWAY, DRIVE AND SHARED USE PATH CROSSINGS SHALL MATCH THE DEPTH OF EXISTING PAVEMENT. PAVEMENT SHALL BE BITUMINOUS CONCRETE PAVEMENT, TYPE IIIS. PAVEMENT LIFTS SHALL NOT EXCEED 2-1/2". BITUMINOUS CONCRETE PAVEMENT SHALL BE PAID AS ITEM 406.38 HAND-PLACED BITUMINOUS CONCRETE PAVEMENT, DRIVES.

2. EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON THE FACE OF CURB OR SAWCUT. EMULSIFIED ASPHALT SHALL MEET THE REQUIREMENTS OF SECTION 404. EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL OTHER PAVED SURFACES AT A RATE BETWEEN 0.025 AND 0.04 GAL/SY, AS DIRECTED BY THE ENGINEER. EMULSIFIED ASPHALT SHALL BE PAID INCIDENTAL TO ITEM 406.38 HAND-PLACED BITUMINOUS CONCRETE PAVEMENT, DRIVES.

EROSION PREVENTION AND SEDIMENT CONTROL:

1. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) CONSISTS OF INLET PROTECTION AND TEMPORARY AND PERMANENT STABILIZATION OF ALL DISTURBED SURFACES. THE CONTRACTOR SHALL REFER TO THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR PRACTICES AND DETAILS. EPSC REQUIREMENTS SHALL BE GOVERNED BY SUBSECTION 105.23 OF THE 2018 VTRANS STANDARD SPECIFICATIONS.

PRECAST STRUCTURE GENERAL NOTES:

1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND ASTM C-478.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 4000 PSI AT 28-DAYS.
3. STEEL REINFORCING SHALL CONFORM TO ASTM A185 OR A82 FOR HS25 LOADING.
4. THE PRECAST CONCRETE SECTIONS SHALL BE COATED WITH A DAMP PROOFING OR SHALL BE CAST WITH A WATERPROOFING CONCRETE ADMIXTURE.
5. FACE OF PIPE SHALL NOT PROJECT MORE THAN 2" OR LESS THAN 1" FROM INSIDE WALL OF STRUCTURE.
6. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 1' OF OUTSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 6" TO JOINTS.
7. FITTING FRAME TO FINAL GRADE MAY BE DONE WITH PRECAST CONCRETE OR RUBBER COMPOSITE GRADE RINGS, 12" MAXIMUM.
8. ALL PIPE INVERTS AND PENETRATION ANGLES SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT AND BE ASSEMBLED USING AN APPROVED BUTYL MASTIC SEALANT.
10. PROVIDE FLEXIBLE RUBBER SLEEVES CONFORMING TO ASTM C-923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO STRUCTURE. SLEEVES SHALL BE CAST INTO PRECAST STRUCTURE BY THE MANUFACTURER FOR ALL PIPE PENETRATIONS.
11. CATCH BASIN GRATE OR COVER ORIENTATION SHALL BE IN ACCORDANCE WITH STANDARD DRAWING D-15 FOR TYPE D OR TYPE E GRATES AND D-11 FOR CAST IRON COVER.

UTILITY GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING WATER AND SANITARY SEWER FLOWS AT ALL TIMES DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BYPASS PUMPING, TEMPORARY RELOCATION OF EXISTING PIPING, AND INSTALLATION OF NEW PIPING AS REQUIRED. PAYMENT FOR MAINTENANCE OF EXISTING WATER AND SANITARY SEWER FLOWS SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (RELOCATE COPPER WATER SERVICE), OR 900.620 SPECIAL PROVISION (RELOCATE SEWER SERVICE).

   THE CONTRACTOR'S SCHEDULE SHALL TAKE INTO CONSIDERATION THE TIME TO CROSS AND, IF REQUIRED, TO RELOCATE EXISTING SANITARY SEWER/WATER MAINS AND SERVICES AFFECTED BY THE WORK OR TO INSTALL NEW PIPING AS REQUIRED, AND THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL TIME OR COSTS ASSOCIATED WITH THESE ROUTINE RELOCATIONS.

2. THE LOCATION OF EXISTING PIPES, DUCTS, AND OTHER UNDERGROUND STRUCTURES SHOWN ON THESE PLANS ARE NOT WARRANTED TO BE EXACT NOR IS IT WARRANTED THAT ALL UNDERGROUND STRUCTURES ARE SHOWN.
3. ALL WORK TO BE COMPLETED, UNLESS OTHERWISE NOTED, SHALL BE WITHIN THE PUBLIC RIGHT OF WAY (ROW) OR EXISTING EASEMENTS.
4. THE CONTRACTOR SHALL INSTALL FOUR INCH POLYSTYRENE RIGID INSULATION AT ALL WATER MAIN/WATER SERVICE AND STORM DRAIN CROSSINGS, AND AS DIRECTED BY THE ENGINEER. PAYMENT FOR POLYSTYRENE RIGID INSULATION AND SAND BEDDING SHALL BE CONSIDERED INCIDENTAL TO ITEM 601.2610 15" CPEP (SL) OR 601.2615 18" CPEP (SL).
5. WHEN REPLACING STRUCTURES AND/OR CONNECTING TO EXISTING PIPING SYSTEMS, CONFIRM EXISTING LOCATIONS, SIZES, AND ELEVATIONS OF INVERTS PRIOR TO ORDERING PRECAST CONCRETE STRUCTURES.
6. THE STANDARD FOR EXISTING GATE VALVES AND CURB STOPS IS OPEN LEFT OR COUNTER CLOCKWISE. THE CONTRACTOR SHALL NOT BE ALLOWED TO OPERATE ANY EXISTING GATE VALVES, FIRE HYDRANTS, OR CURB STOPS WITHOUT PRIOR APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS.
7. IN THE EVENT OF A PLANNED TEMPORARY WATER SERVICE SHUTDOWN, THE CONTRACTOR SHALL NOTIFY ALL CUSTOMERS TO BE TEMPORARILY OUT OF WATER A MINIMUM OF 48 HOURS PRIOR TO THE SHUTDOWN ACTIVITY. AT NO TIME SHALL A CUSTOMER BE WITHOUT WATER FOR MORE THAN 4 HOURS.
8. THE CONTRACTOR SHALL PROMPTLY RESTORE ALL GRASS AREAS DISTURBED AS DIRECTED BY THE ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT RECORDS TO THE CITY OF SOUTH BURLINGTON, PUBLIC WORKS DEPARTMENT. AS-BUILT RECORDS SHALL BE DEVELOPED AS DIRECTED BY THE CITY OF SOUTH BURLINGTON, PUBLIC WORKS DEPARTMENT.
10. CONTRACTOR SHALL MAINTAIN ACCESS TO AFFECTED COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES DURING CONSTRUCTION. .

DRIVEWAYS:

1. THE PROJECT WILL INVOLVE A NUMBER OF TRENCHES TO BE DUG THROUGH EXISTING SHARED USE PATH, DRIVEWAYS, AND LAWNS FOR STOWMWATER DRAINAGE INSTALLATIONS. THESE TRENCHES SHALL BE BACKFILLED OR PROPERLY PROTECTED AT THE END OF EACH WORK DAY TO ENSURE SAFE MOTORIST AND PEDESTRIAN TRAVEL THROUGH THE WORK ZONE. BACKFILL MATERIALS INCLUDING TEMPORARY SUBBASE SHALL BE INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

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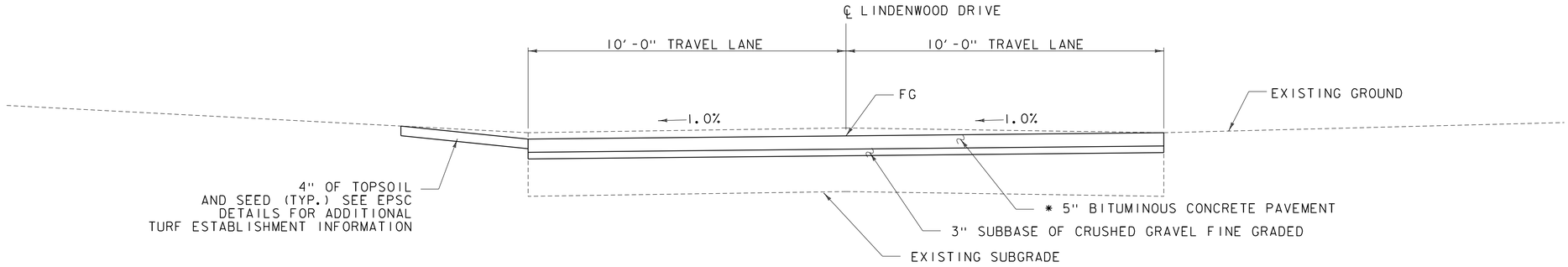
Permit-Seal

Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
GENERAL NOTES SHEET

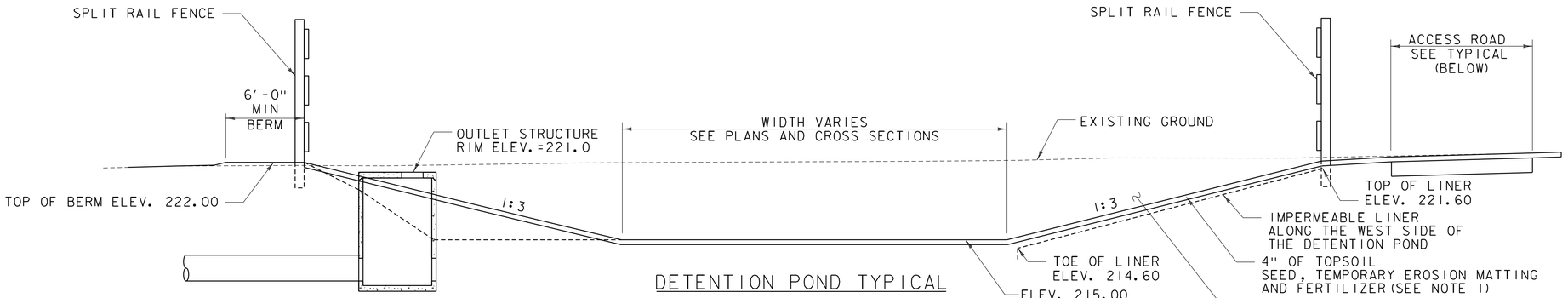
Project No.	Scale	
195311743	N.T.S.	
Drawing No.	Sheet	Revision
	2 of 22	0



LINDENWOOD DRIVE TYPICAL

NOT TO SCALE

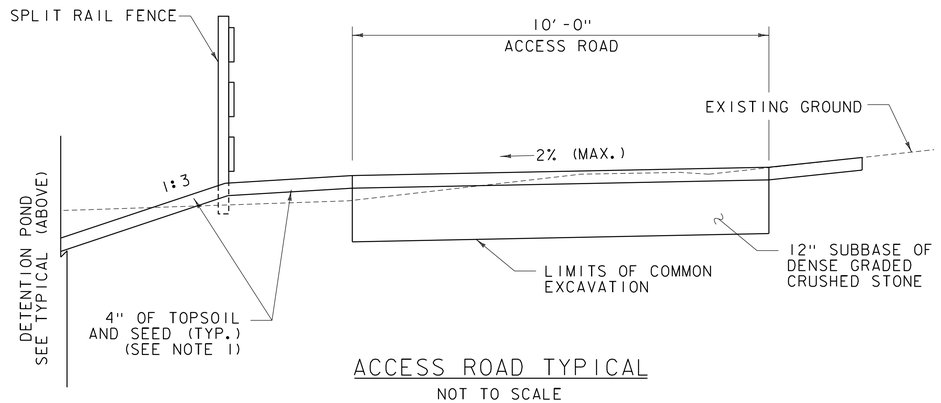
* 1 1/2" TYPE IVS OVER
1 1/2" TYPE IVS OVER
2" TYPE IIIS



DETENTION POND TYPICAL

NOT TO SCALE

NOTES:
1. SEE EPSC DETAILS FOR SEEDING FORMULA AND ADDITIONAL DETAILS ON TURF ESTABLISHMENT.



ACCESS ROAD TYPICAL

NOT TO SCALE

NOTES:
1. SEE EPSC DETAILS FOR SEEDING FORMULA AND ADDITIONAL DETAILS ON TURF ESTABLISHMENT.

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LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
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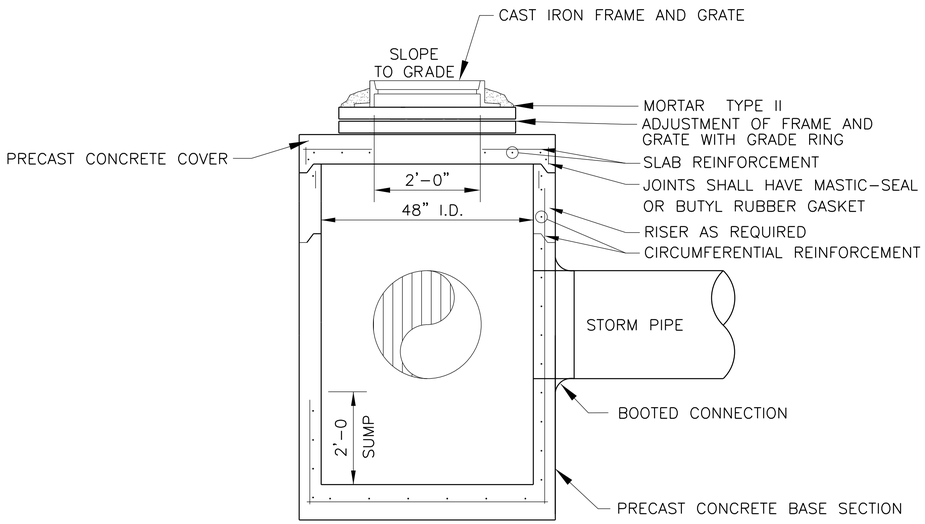
195311743	N.T.S.	
Drawing No.	Sheet	Revision



TYPICAL CATCH BASIN DETAIL

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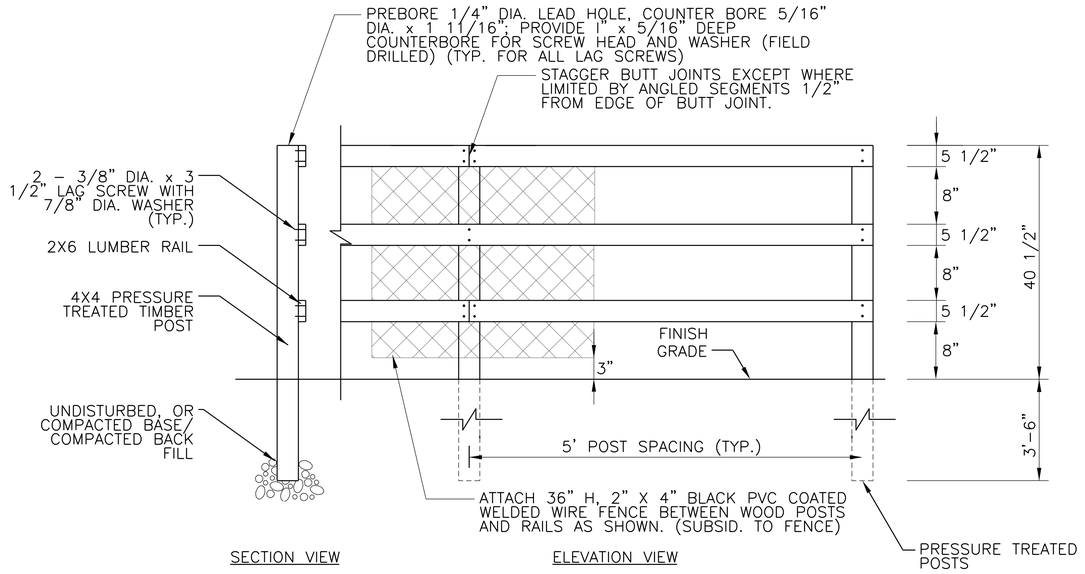
NOTES:
1. ALL WORK SHOWN ON THIS DETAIL PAID AS (ITEM 604.20 PRECAST REINFORCED CONCRETE MANHOLE CONCRETE CATCH BASIN WITH CAST IRON GRATE).



SPLIT RAIL FENCE DETAIL

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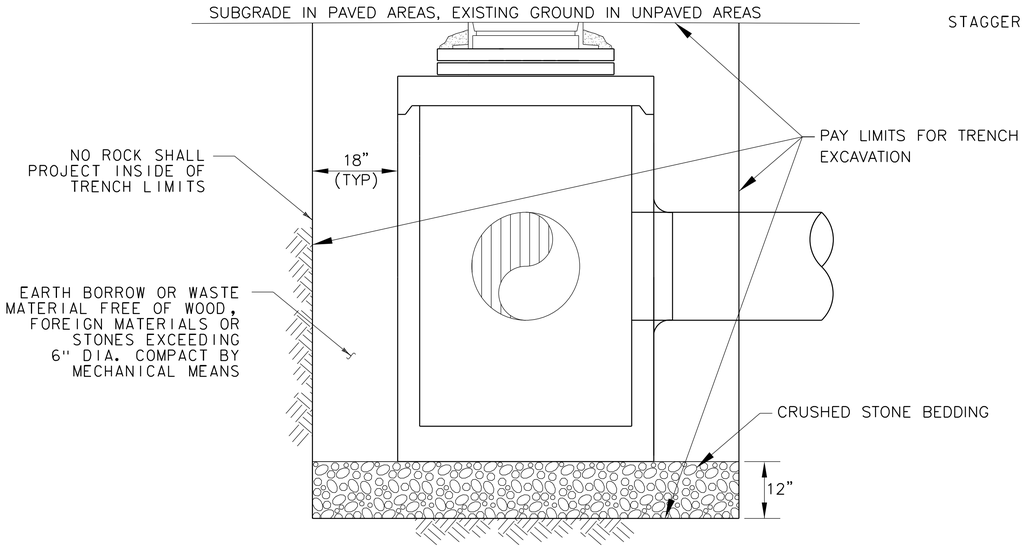

DRAINAGE STRUCTURE EXCAVATION AND BACKFILL DETAIL

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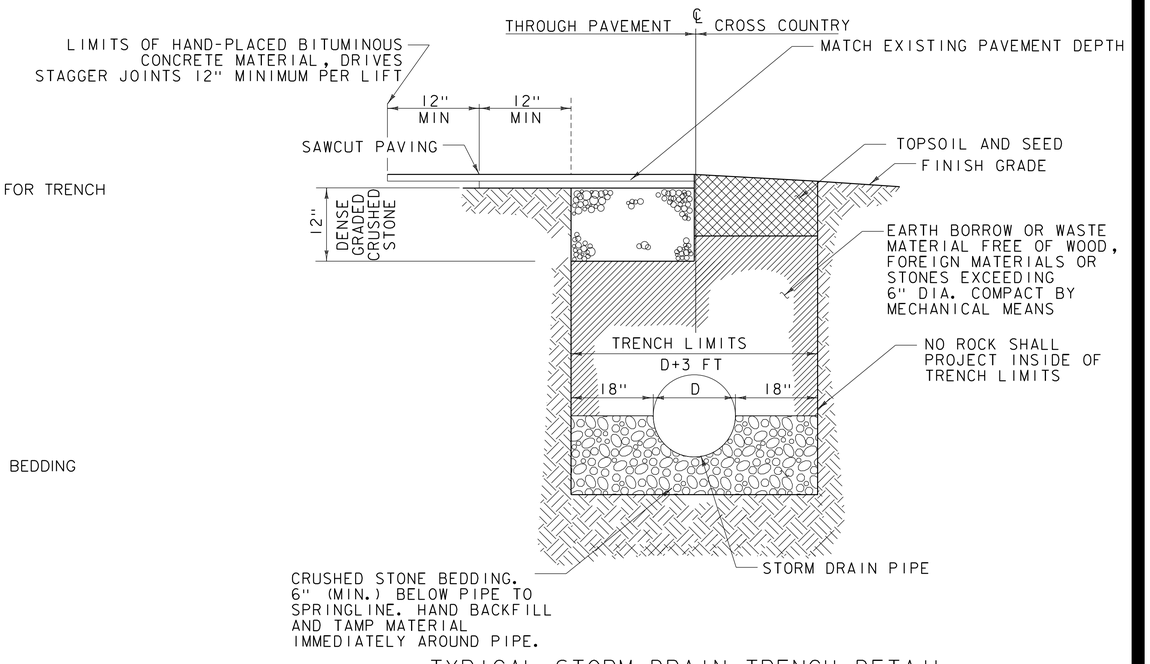

TYPICAL STORM DRAIN TRENCH DETAIL

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Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
DETAIL SHEET 1

Project No.	Scale	
195311743	N.T.S.	
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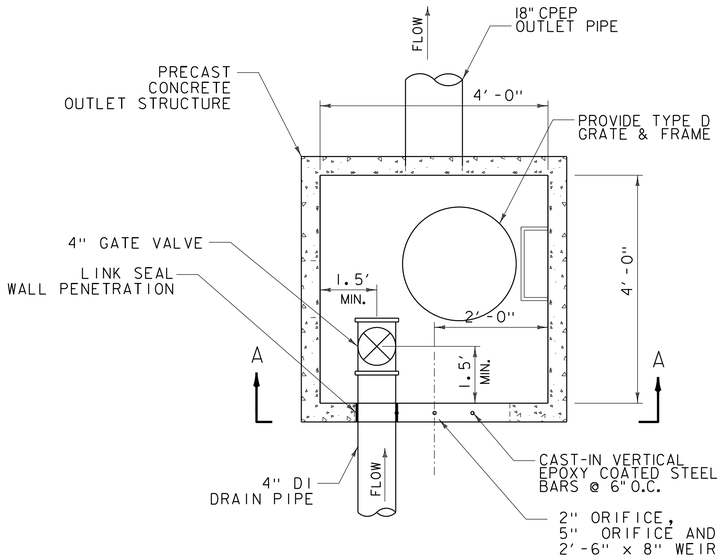
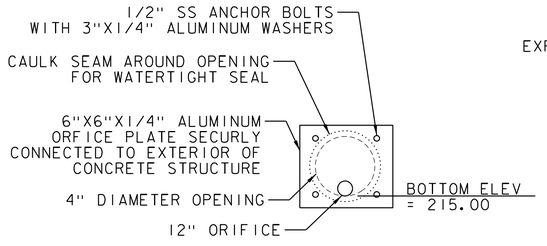
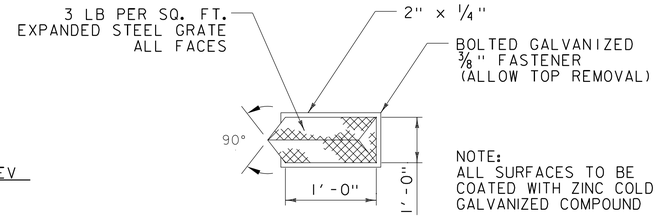


PLAN



ALUMINUM ORIFICE PLATE

NOT TO SCALE



TRASH RACK

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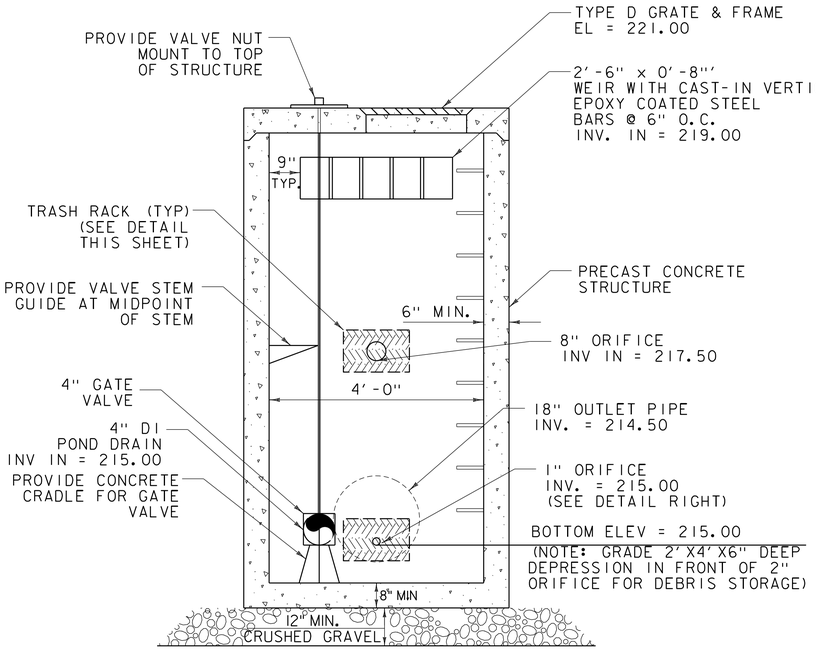


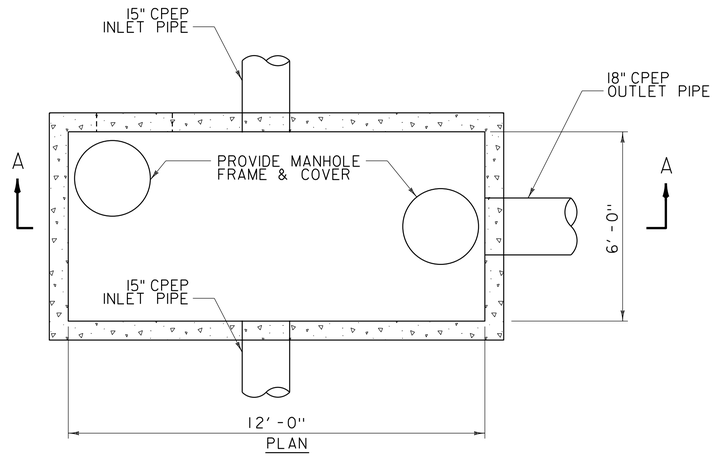
SECTION A-A

DRY DETENTION BASIN
OUTLET STRUCTURE

NOT TO SCALE

NOTES:

1. ALL WORK SHOWN ON THIS DETAIL WITH THE EXCEPTION OF OUTLET PIPE PAID AS ITEM 900.620 SPECIAL PROVISION (OUTLET CONTROL STRUCTURE).



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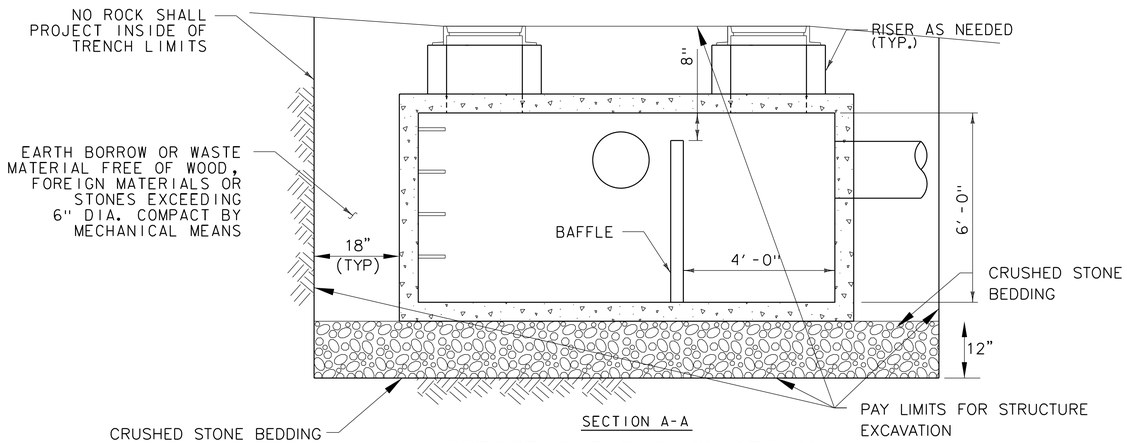

SECTION A-A

PRETREATMENT TANK DETAIL

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Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
DETAIL SHEET 2

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195311743	N.T.S.	
Drawing No.	Sheet	Revision
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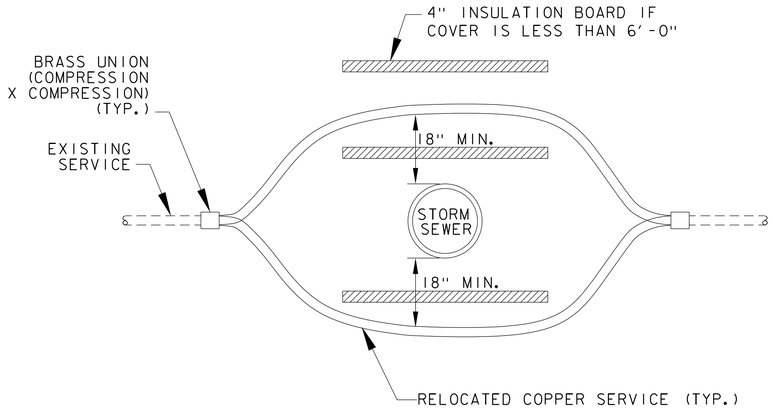
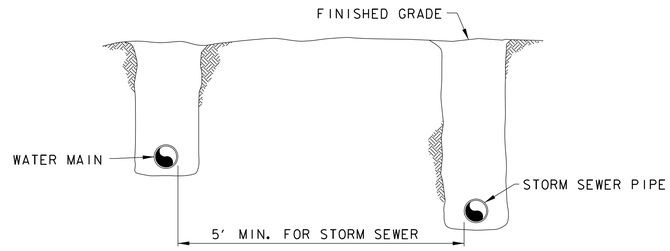


WATER SERVICE RELOCATION DETAIL

NOT TO SCALE

NOTES:
1. SEE SPECIFICATION 628.13 FOR DETAILS, DESCRIPTIONS AND INSTRUCTIONS.
2. MATCH EXISTING WATER SERVICE PIPE SIZE AND MATERIAL.
3. POLYSTYRENE INSULATION BOARD SHALL MEET THE REQUIREMENTS OF SUBSECTION 735.01 AS STATED IN VTRANS STANDARD SPECIFICIATION FOR CONSTRUCTION.



STORM SEWER-WATER PARALLEL INSTALLATION

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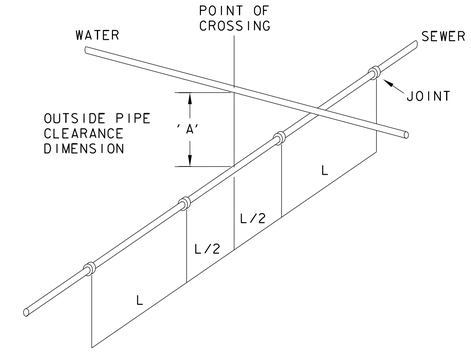
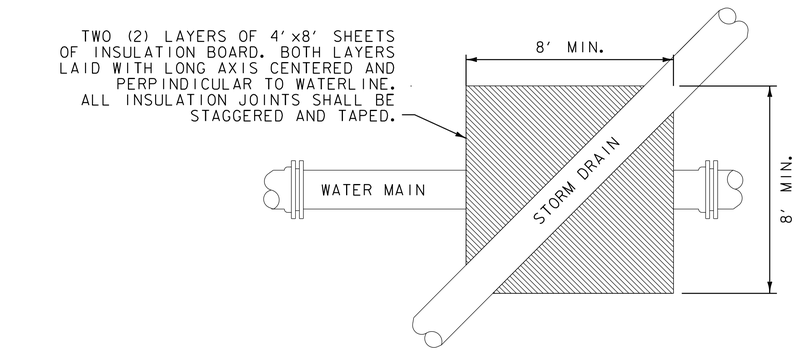


CONSTRUCTION RESTRICTIONS:

1. IN ALL NEW CONSTRUCTION, DIMENSION 'A' SHALL NEVER BE LESS THAN 18 INCHES.
2. WITH ALL NEW CONSTRUCTION, THE CROSSING SHALL BE ARRANGED AS SHOWN IN THIS DIAGRAM, SO THAT THE STORM SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
3. IF IT IS IMPOSSIBLE TO MAINTAIN THE 18 - INCH SEPERATION DUE TO EXISTING UTILITY, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE STORM SEWER, PLUS THE WATER MAIN OR THE STORM SEWER SHALL BE COMPLETELY ENCASED IN A SEAMLESS SLEEVE CONSISTING OF A FULL (MINIMUM 19 FEET) LENGTH OF PIPE (E.G. SDR 35 PVC), CENTERED ON THE CROSSED UTILITY.



STORM SEWER CROSSING INSULATION DETAIL

NOT TO SCALE

NOTES:

1. PAYMENT FOR POLYSTYRENE RIGID BOARD INSULATION AND SAND BEDDING SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.620, SPECIAL PROVISION (RELOCATE COPPER WATER SERVICE), OR STORM PIPE ITEM.
2. SAND BLANKET MATERIAL SHALL MEET THE REQUIREMENTS OF SUBSECTION 703.03 AND POLYSTYRENE INSULATION BOARD SHALL MEET THE REQUIREMENTS OF SUBSECTION 735.01 AS STATED IN THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

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Notes

Revision	By	Appd.	YY.MM.DD

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File Name: details.dgn	PZA	ISM	JML	4/15/2022
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
DETAIL SHEET 3

Project No.	Scale	
195311743	N.T.S.	
Drawing No.	Sheet	Revision
	6 of 22	0

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS			
1011 - ROADWAY	1051 - EROSION CONTROL	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
1		1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	
1300		1300		CY	COMMON EXCAVATION	203.15	
980		980		CY	TRENCH EXCAVATION OF EARTH	204.20	
60		60		CY	TRENCH EXCAVATION OF ROCK	204.21	
1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	
45		45		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10	
25		25		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	
210		210		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	
4		4		CWT	EMULSIFIED ASPHALT	404.65	
220		220		SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38	
72		72		LF	18" CPEP	601.0915	
756		756		LF	15" CPEP(SL)	601.2610	
7		7		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20	
2		2		CY	STONE FILL, TYPE I	613.10	
7		7		CY	STONE FILL, TYPE II	613.11	
190		190		TON	CRUSHED STONE BEDDING	629.54	
160		160		HR	FLAGGERS	630.15	
1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11	
1		1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11	
23		23		SY	GEOTEXTILE UNDER STONE FILL	649.31	
	30	30		LB	SEED	651.15	
	300	300		LB	FERTILIZER	651.18	
	1	1		TON	AGRICULTURAL LIMESTONE	651.20	
	200	200		CY	TOPSOIL	651.35	
	1	1		TON	HAY MULCH	653.10	
	740	740		SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.20	
	20	20		CY	STABILIZED CONSTRUCTION ENTRANCE	653.35	
	3	3		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	
	3	3		EACH	INLET PROTECTION DEVICE, TYPE II	653.41	
	120	120		LF	BARRIER FENCE	653.50	
	950	950		LF	PROJECT DEMARCATION FENCE	653.55	
1		1		EACH	DECIDUOUS TREES	656.30	
1		1		MGAL	LANDSCAPE WATERING	656.65	
2		2		CY	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.80	
3		3		EACH	SPECIAL PROVISION (RELOCATE SEWER SERVICE, ALL-INCLUSIVE)	900.620	
5		5		EACH	SPECIAL PROVISION (RELOCATE COPPER WATER SERVICE, ALL-INCLUSIVE)	900.620	
1		1		EACH	SPECIAL PROVISION (PRECAST CONCRETE PRETREATMENT TANK)	900.620	
1		1		EACH	SPECIAL PROVISION (PRECAST CONCRETE OUTLET STRUCTURE)	900.620	
3		3		EACH	SPECIAL PROVISION (TEMPORARY SUPPORT OF UTILITY POLES)	900.620	
350		350		LF	SPECIAL PROVISION (SPLIT RAIL FENCE)	900.640	
175		175		SY	SPECIAL PROVISION (GEOMEMBRANE LINER)	900.675	
1		1		LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT)(N.A.B.I)	900.500	
40		40		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.980	

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Issued	By	Appd.	YY.MM.DD

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Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
QUANTITY SHEET 1

Project No. 195311743
Scale N.T.S.
Drawing No.
Sheet 7 of 22
Revision 0

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⊡	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEP.
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEP.
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

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Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

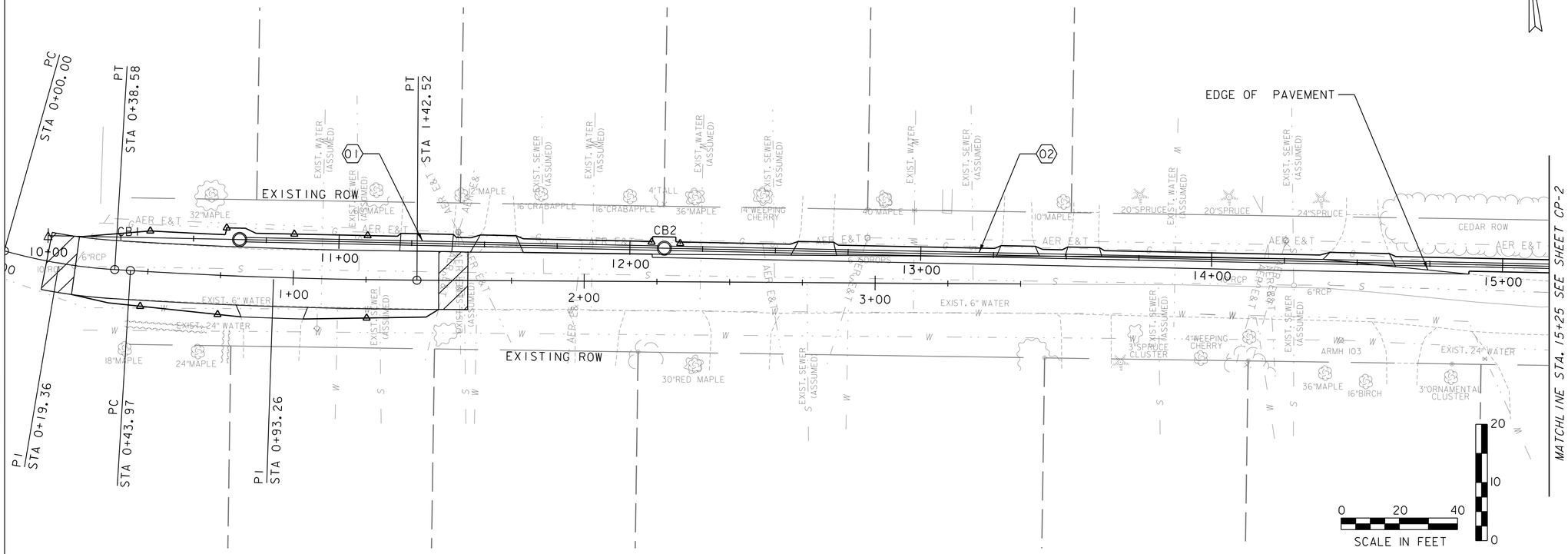
Title
CONVENTIONAL LEGEND & SYMOBLOGY SHEET

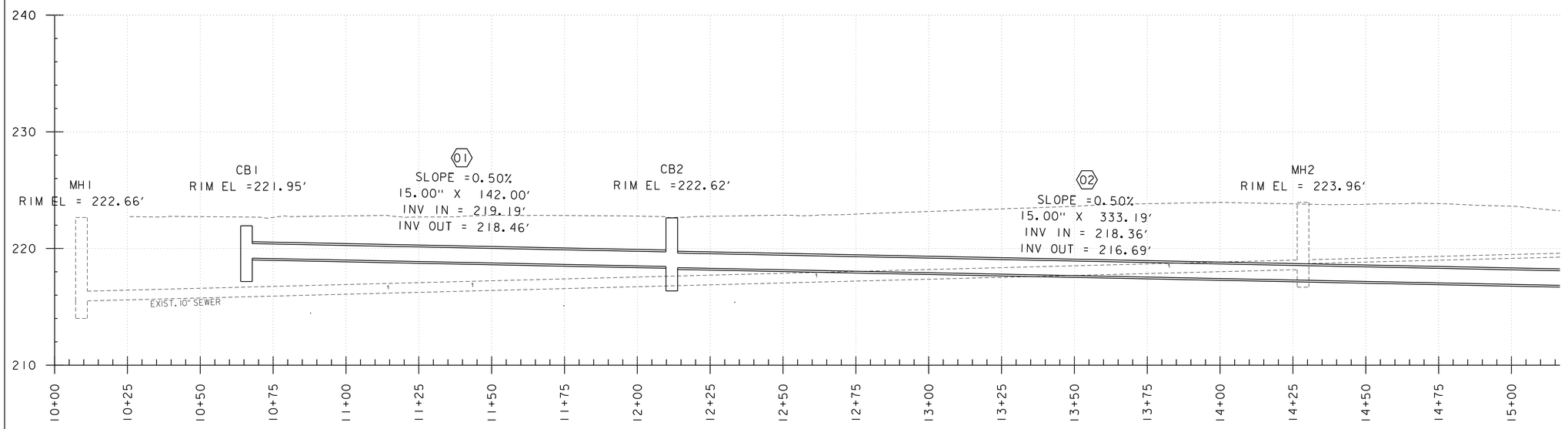
Project No.	Scale	
195311743	N.T.S.	
Drawing No.	Sheet	Revision
	8 of 22	0

01 STA. 10+66, C/L TO STA. 12+12, C/L
INSTALL 15" X 172' CPEP (SL)
CONSTRUCT NEW PRECAST REINFORCED CONCRETE CATCH BASIN AT STA. 10+66

02 STA. 12+12, C/L TO STA. 15+49, C/L
INSTALL 15" X 334' CPEP (SL)
CONSTRUCT NEW PRECAST REINFORCED CONCRETE CATCH BASIN AT STA. 12+12

N
VT STATE PLANE GRID





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File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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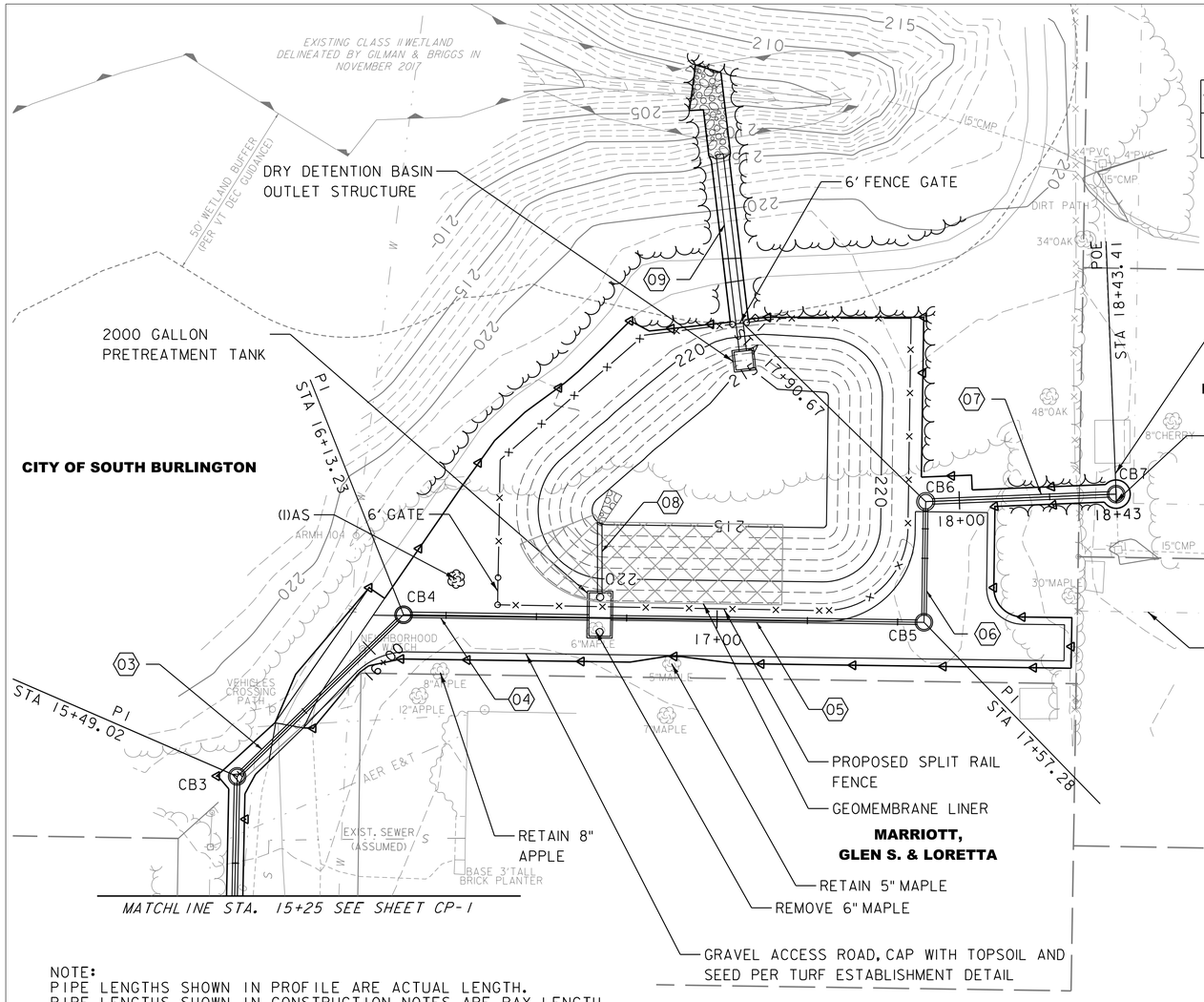
Client/Project
LINDENWOOD DRIVE
DETENTION POND

STP MM19(10)

Title
PLAN AND PROFILE SHEET 1

Project No.	Scale	
195311743	1" = 20'	
Drawing No.	Sheet	Revision
CP-1	9 of 22	0



SYMBOL	BOTANICAL NAME	COMMON NAME	QTY	SIZE	COMMENT
AS	ACER SACCHARUM 'GREEN MOUNTAIN'	SUGAR MAPLE	1	2.5"-3" CAL.	B & B

VT STATE PLANE GRID

03 STA. 15+49, C/L. TO STA. 16+13, C/L
INSTALL 15" X 62' CPEP (SL)
CONSTRUCT NEW PRECAST REINFORCED CONCRETE CATCH BASIN AT STA. 15+49

04 STA. 16+13, C/L TO STA. 16+68, C/L
INSTALL 15" X 52' CPEP (SL)
CONSTRUCT NEW PRECAST REINFORCED CONCRETE CATCH BASIN AT STA. 16+13, C/L

05 STA. 16+68, C/L TO STA. 17+57, C/L
INSTALL 15" X 86' CPEP (SL)
CONSTRUCT NEW PRECAST PREINFORCED CONCRETE CATCH BASIN AT STA. 17+57, CL

06 STA. 17+57, C/L TO STA. 17+91, C/L
INSTALL 15" X 30' CPEP (SL)
CONSTRUCT NEW PRECAST PREINFORCED CONCRETE CATCH BASIN AT STA. 17+91, CL

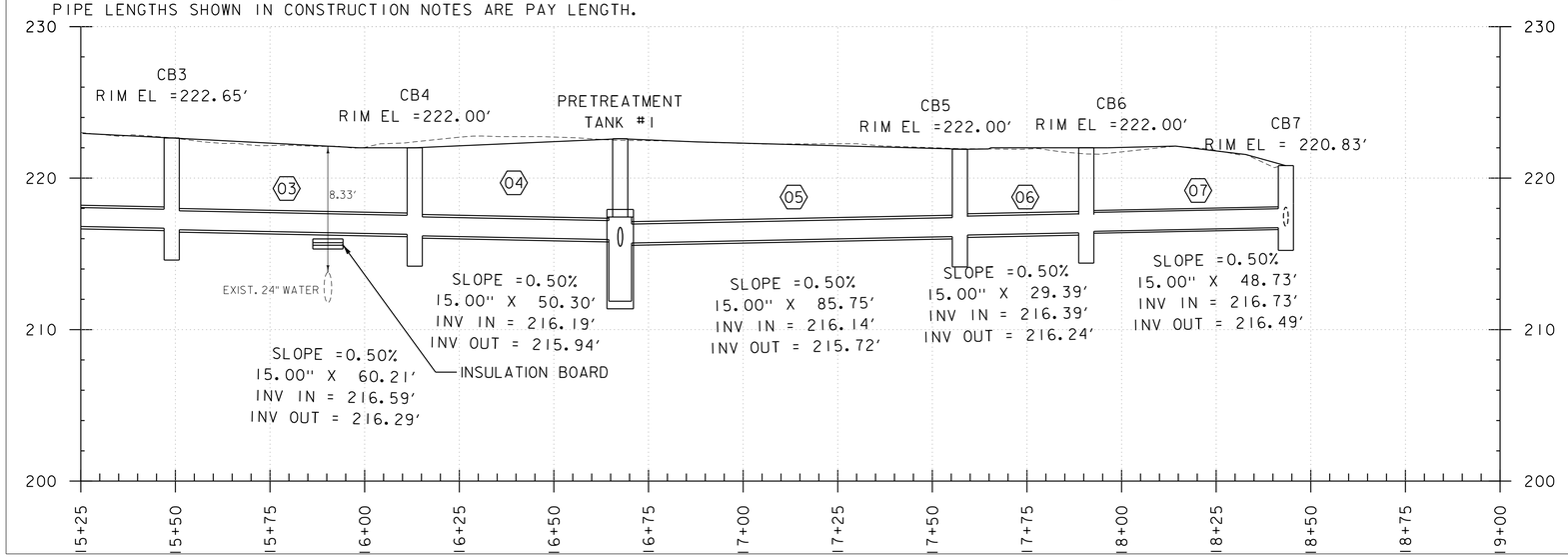
07 STA. 17+91, C/L TO STA. 18+43, C/L
INSTALL 15" X 50' CPEP (SL)
CONSTRUCT NEW PRECAST REINFORCED CONCRETE CATCH BASIN AT STA. 18+43, CL
CONNECT TO EXISTING 15" CSP (CONNECTING TO EXISTING PIPE SHALL BE CONSIDERED INCIDENTAL TO CATCH BASIN CONSTRUCTION)

08 STA. 16+68, C/L TO STA. 16+68, LT
INSTALL 18" X 14' CPEP (SL)
CONSTRUCT NEW PRECAST PRE TREATMENT TANK AT STA. 17+91, CL

09 STA. 17+00, LT TO STA. 17+06, LT
INSTALL 18" X 58' CPEP
CONSTRUCT NEW DETENTION POND OUTLET STRUCTURE AT STA. 17+11, LT
CONSTRUCT STONE FILL TYPE II, AT OUTLET

SPECIAL PROVISION (SPLIT RAIL FENCE)
16+39.2-17+52.5, LT.

NOTE:
PIPE LENGTHS SHOWN IN PROFILE ARE ACTUAL LENGTH.
PIPE LENGTHS SHOWN IN CONSTRUCTION NOTES ARE PAY LENGTH.



SCALE IN FEET: 0, 20, 40 / 0, 10, 20

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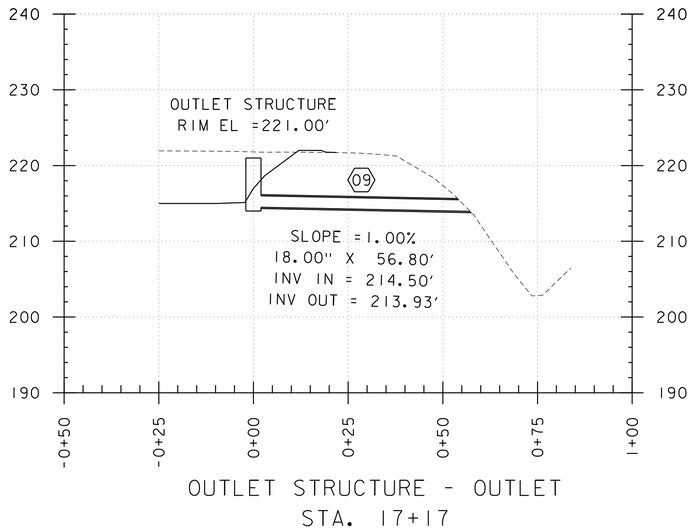
Client/Project
LINDENWOO DRIVE
DETENTION POND

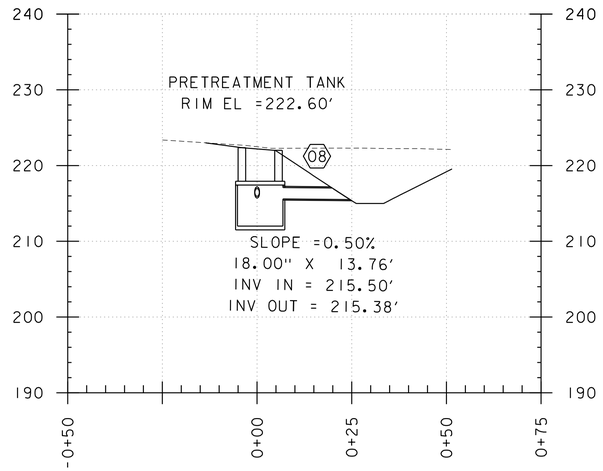
STP MM19(10)

Title
PLAN AND PROFILE SHEET 2

Project No.	Scale	
195311743	1" = 20'	
Drawing No.	Sheet	Revision
CP-2	10 of 22	0



OUTLET STRUCTURE - OUTLET
STA. 17+17



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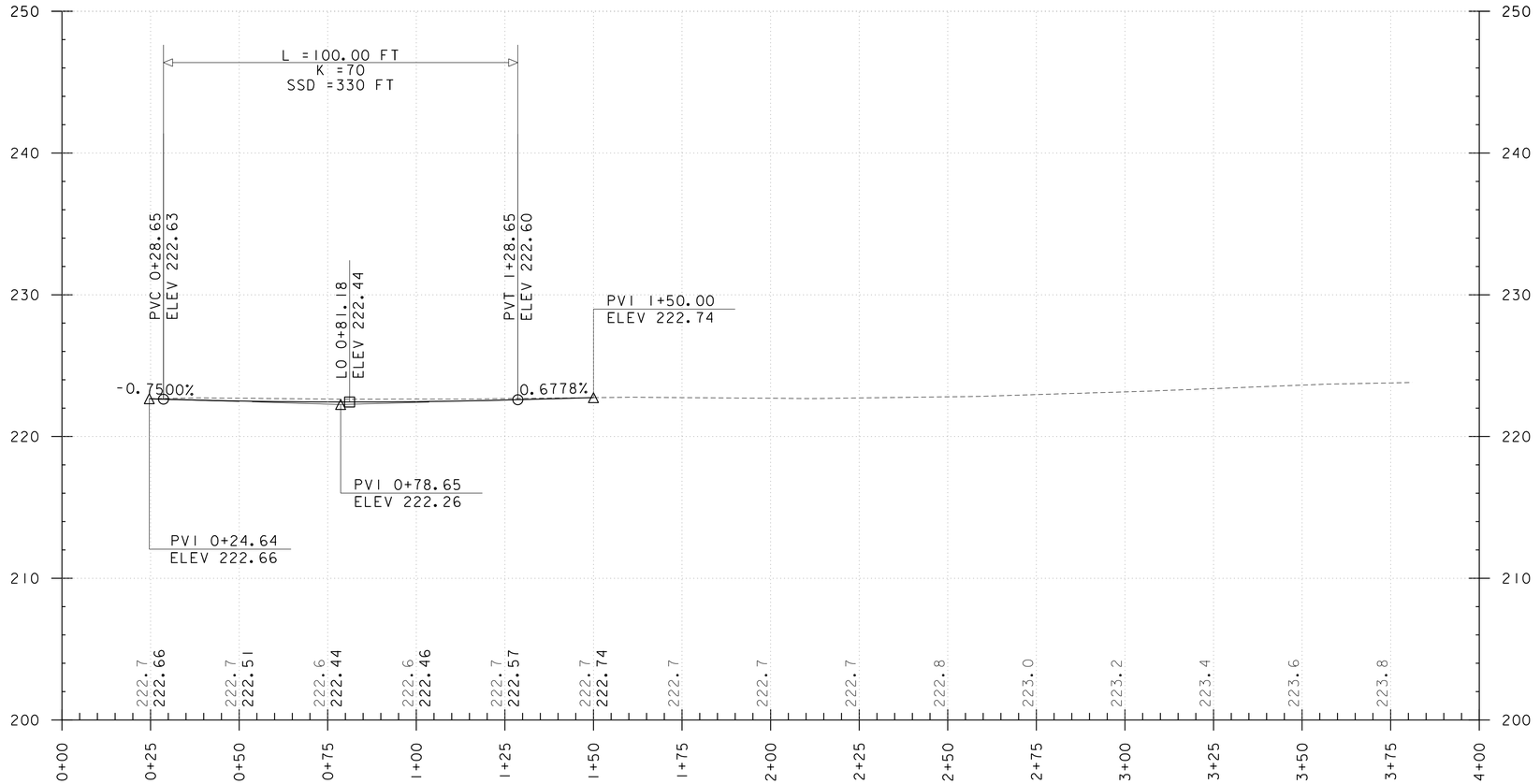
Client/Project
LINDENWOO DRIVE
DETENTION POND

STP MM19(10)

Title
DRAINAGE PROFILES

Project No.	Scale	
195311743	1" = 20'	
Drawing No.	Sheet	Revision
	11 of 22	0



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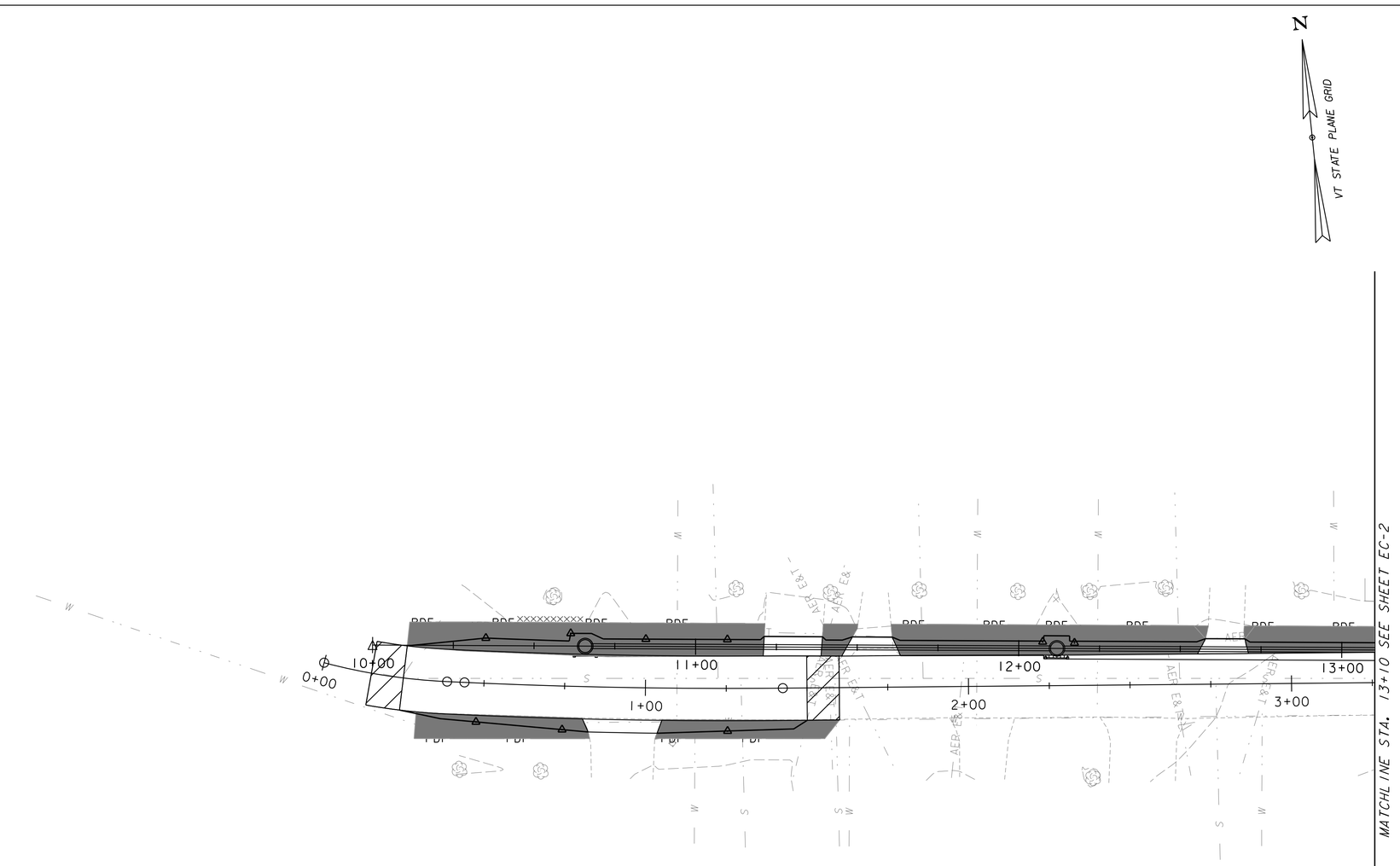
Client/Project
LINDENWOO DRIVE
DETENTION POND

STP MM19(10)

Title
ROADWAY PROFILE

Project No.	Scale	
195311743	1" = 20'	
Drawing No.	Sheet	Revision
	12 of 22	0



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Notes

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

File Name: | Dwn. | Chkd. | Dsgn. | YY.MM.DD

Permit-Seal

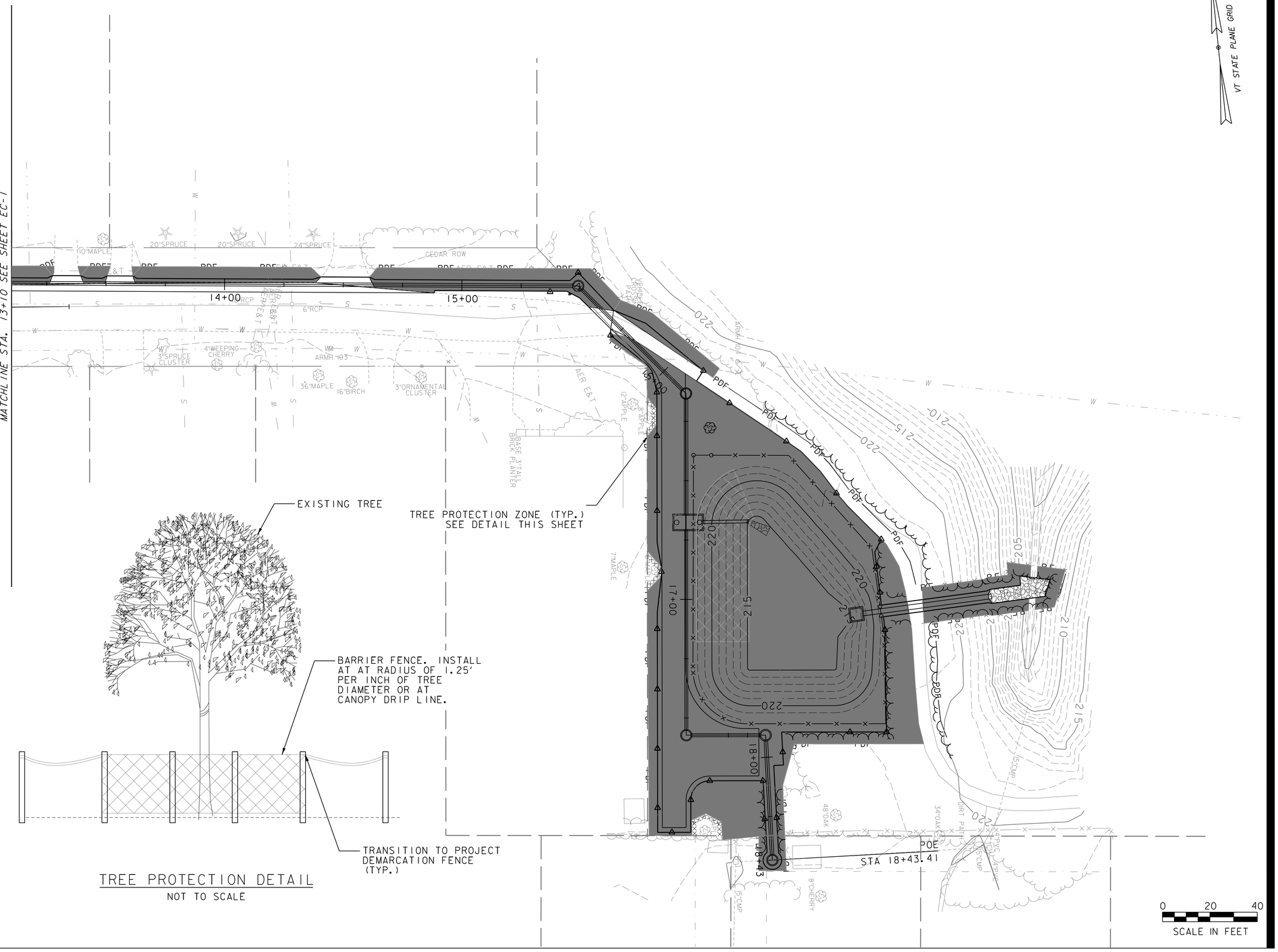
Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
EROSION CONTROL PLAN SHEET 1

Project No.	Scale	
195311743	1" = 20'	
Drawing No.	Sheet	Revision
EC-1	13 of 22	0

MATCHLINE STA. 13+10 SEE SHEET EC-1



EXISTING TREE

TREE PROTECTION ZONE (TYP.)
SEE DETAIL THIS SHEET

BARRIER FENCE. INSTALL AT AT RADIUS OF 1.25' PER INCH OF TREE DIAMETER OR AT CANOPY DRIP LINE.

TRANSITION TO PROJECT DEMARCATION FENCE (TYP.)

TREE PROTECTION DETAIL

NOT TO SCALE

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Notes

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Issued	By	Appd.	YY.MM.DD

File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
EROSION CONTROL PLAN SHEET 2

Project No.	Scale	
195311743	1" = 20'	
Drawing No.	Sheet	Revision
EC-2	14 of 22	0

BARRIER FENCE (LINE STYLE) – B F – × × × – B F –
653.50

SILT FENCE, TYPE I (LINE STYLE)
653.475, DETAIL

SILT FENCE, TYPE II (LINE STYLE)
653.476, DETAIL (WOVEN WIRE)

STABILIZED CONSTRUCTION ENTRANCE
653.35, DETAIL

INLET PROTECTION DEVICE, TYPE III
653.42, DETAIL (PIPE)

INLET PROTECTION DEVICE, TYPE I OR II
653.40 OR 653.41, DETAIL

PROJECT DEMARCATION FENCE (LINE STYLE) – PDF – PDF –
653.55

ROLLED EROSION CONTROL PRODUCT, TYPE I (RECP)
653.20 (TEMP. EROSION MATTING)

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STANDARD SYMBOLS

VAOT URBAN LAWN MIX

	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
42.5%	34	68	CREEPING RED FESCUE	FESTUCA RUBRA X RUBRA	85%	98%
20.0%	16	32	PERENNIAL RYE GRASS	LOLIUM PERENNE	90%	95%
32.5%	26	52	KENTUCKY BLUE GRASS	POA PRATENSIS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	80	160				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE URBAN AREA MIX SHALL NOT BE USED IN WETLANDS OR ANY WATERS OF THE STATE OF VERMONT.
2. SEED MIX: USE ONLY AS INDICATED IN THE PLANS.
3. SEED MIX: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS
JANUARY 22, 2015 WHF

VAOT LOW GROW/FINE FESCUE MIX

	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
38%	57	95	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX

	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
37.5%	22.5	45	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS
JANUARY 12, 2015 WHF

1. URBAN LAWN MIX TO BE USED FOR STABILIZATION OF LAWN ALONG LINDENWOOD DRIVE
2. LOW GROW MIX TO BE USED IN DETENTION BASIN AND OUTLET PIPE TRENCH.

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Issued | By | Appd. | YY.MM.DD

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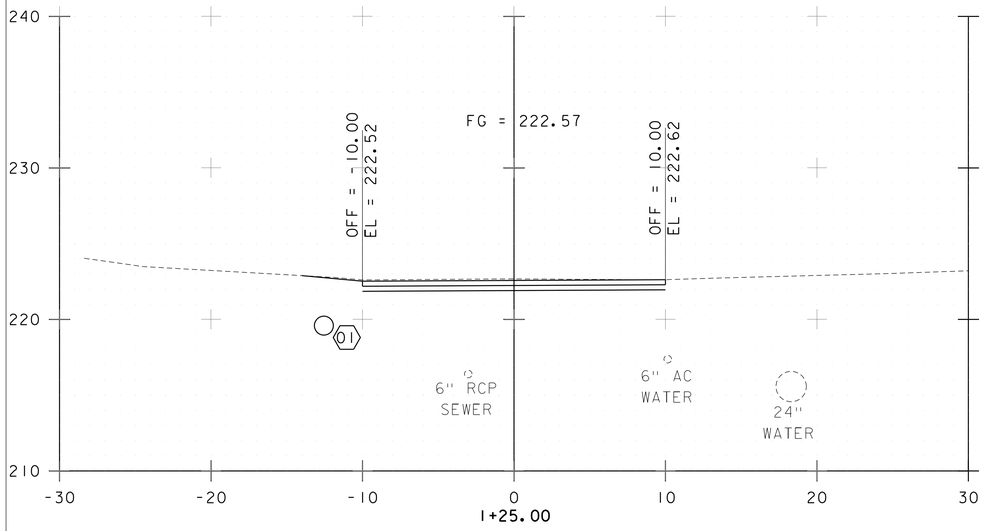
Permit-Seal

Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
EROSION CONTROL DETAILS

Project No. 195311743
Scale N.T.S.
Drawing No.
Sheet 15 of 22
Revision 0



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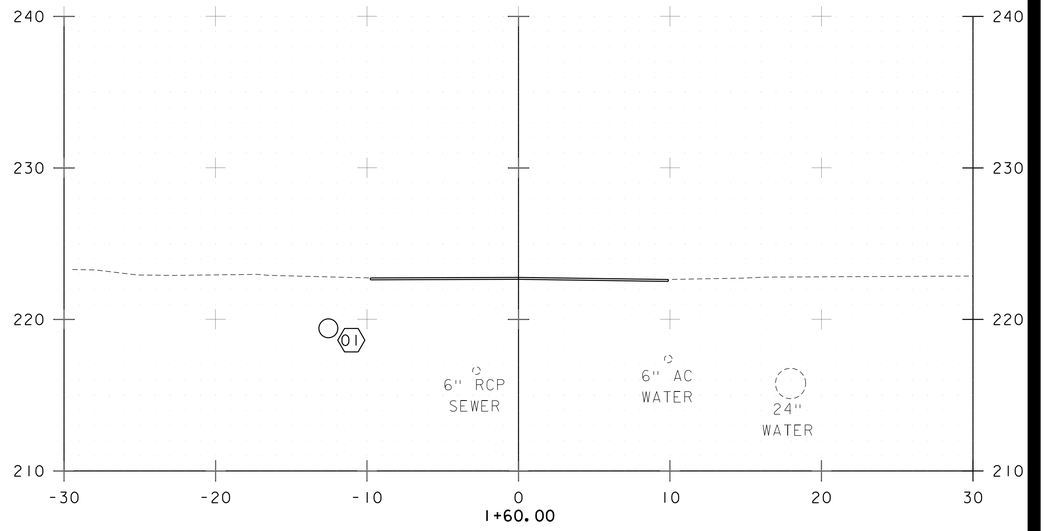

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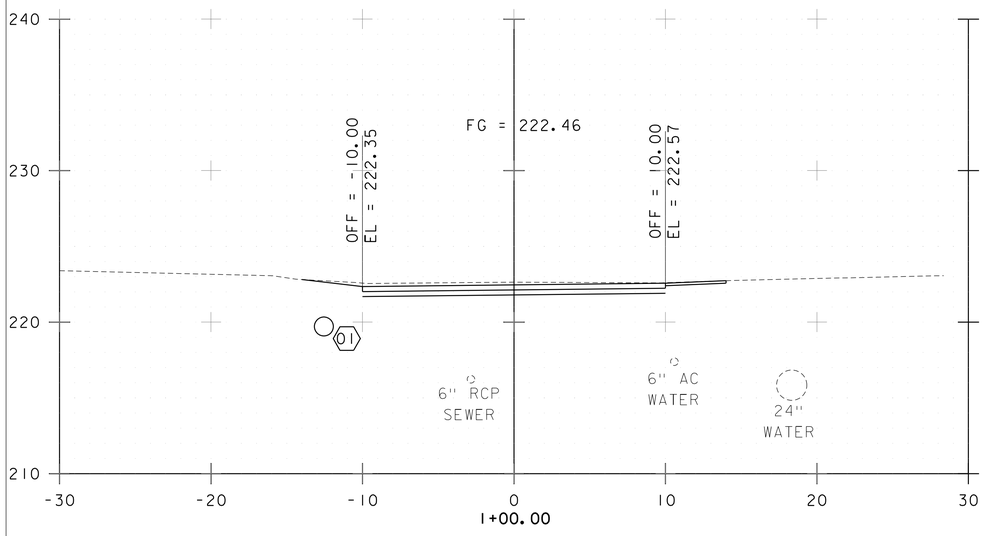

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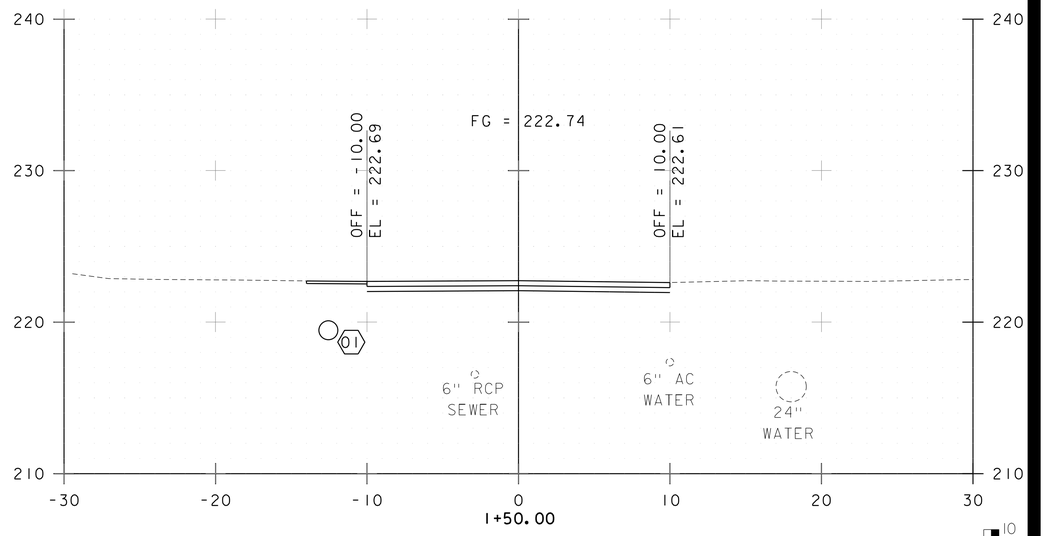
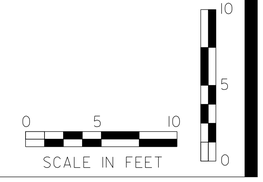


1+50.00

STA. 1+00 TO STA. 1+60



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Revision | By | Appd. | YY.MM.DD

Issued | By | Appd. | YY.MM.DD

File Name: | Dwn. | Chkd. | Dsgn. | YY.MM.DD

Permit-Seal

Client/Project
LINDENWOO DRIVE
DETENTION POND

STP MM19(10)

Title
ROADWAY CROSS SECTIONS SHEET 2

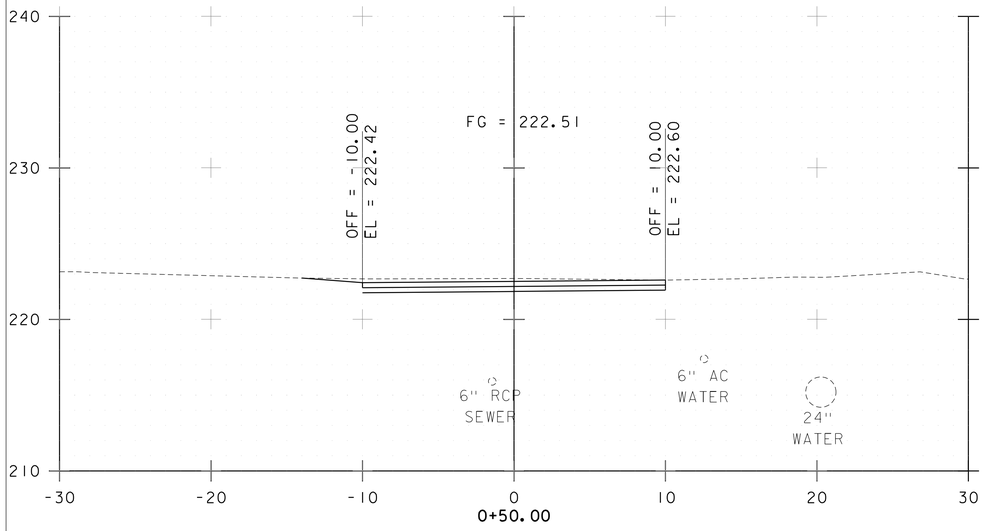
Project No.
195311743

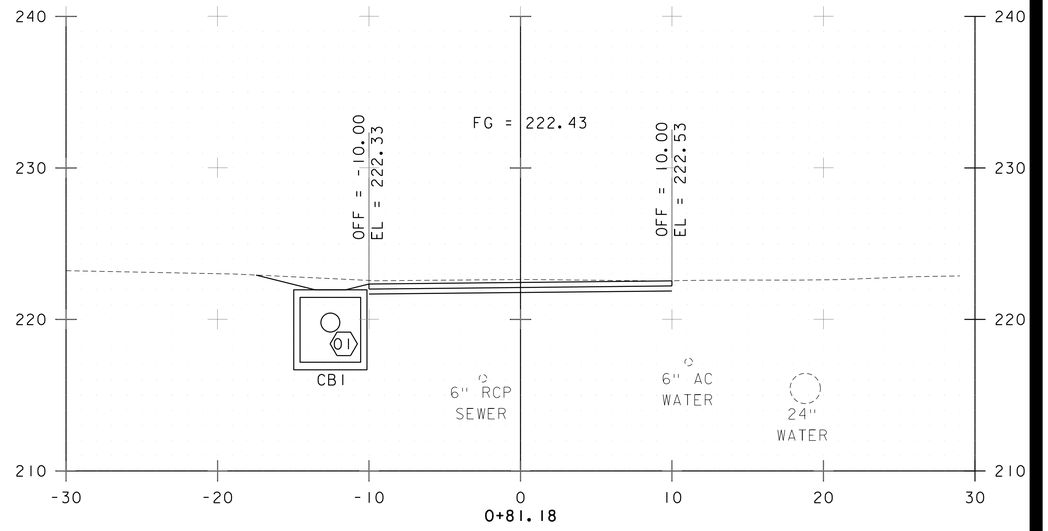
Scale
1" = 5'

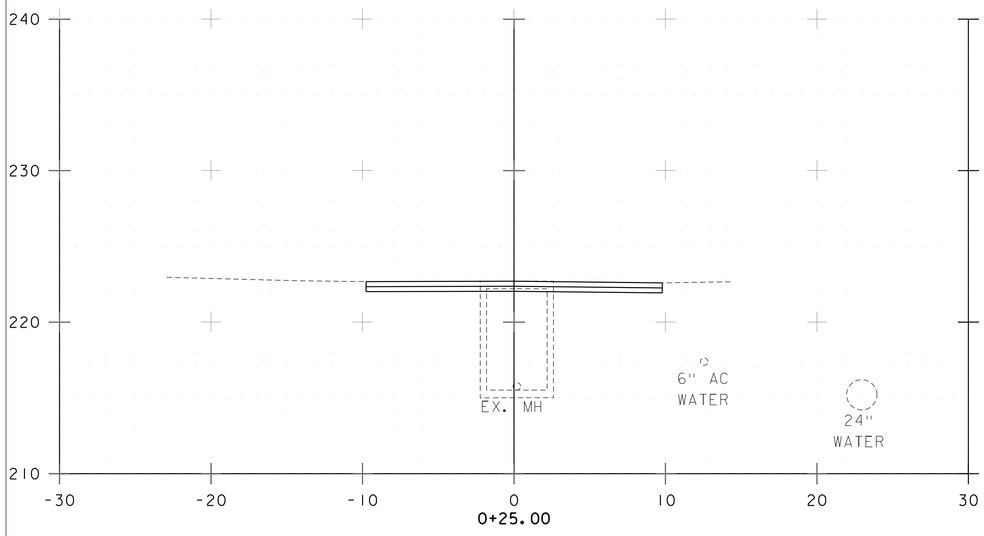
Drawing No.
XS-2

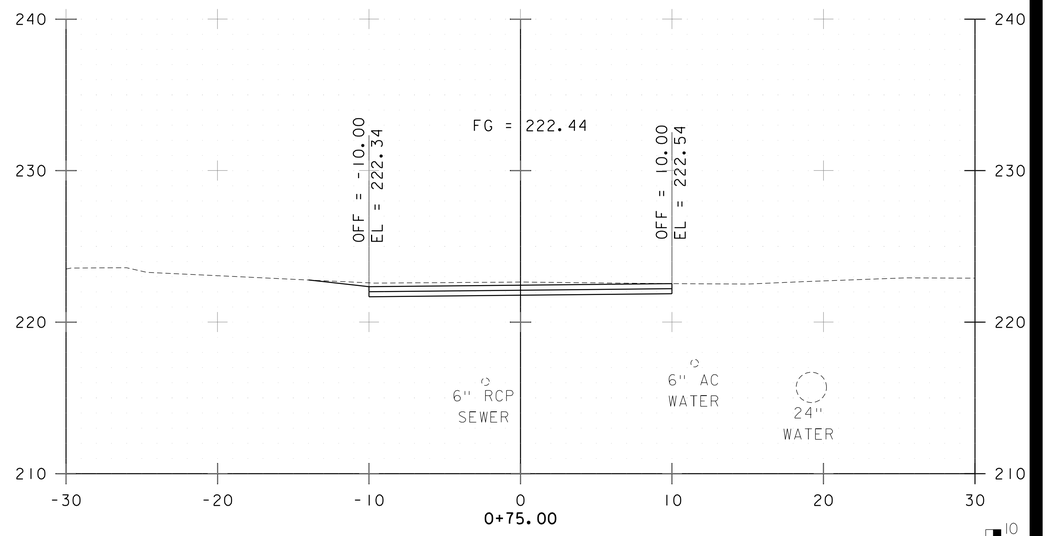
Sheet
16 of 22

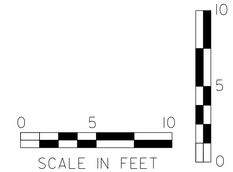
Revision
0











STA. 0+25 TO STA. 0+81

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Issued	By	Appd.	YY.MM.DD

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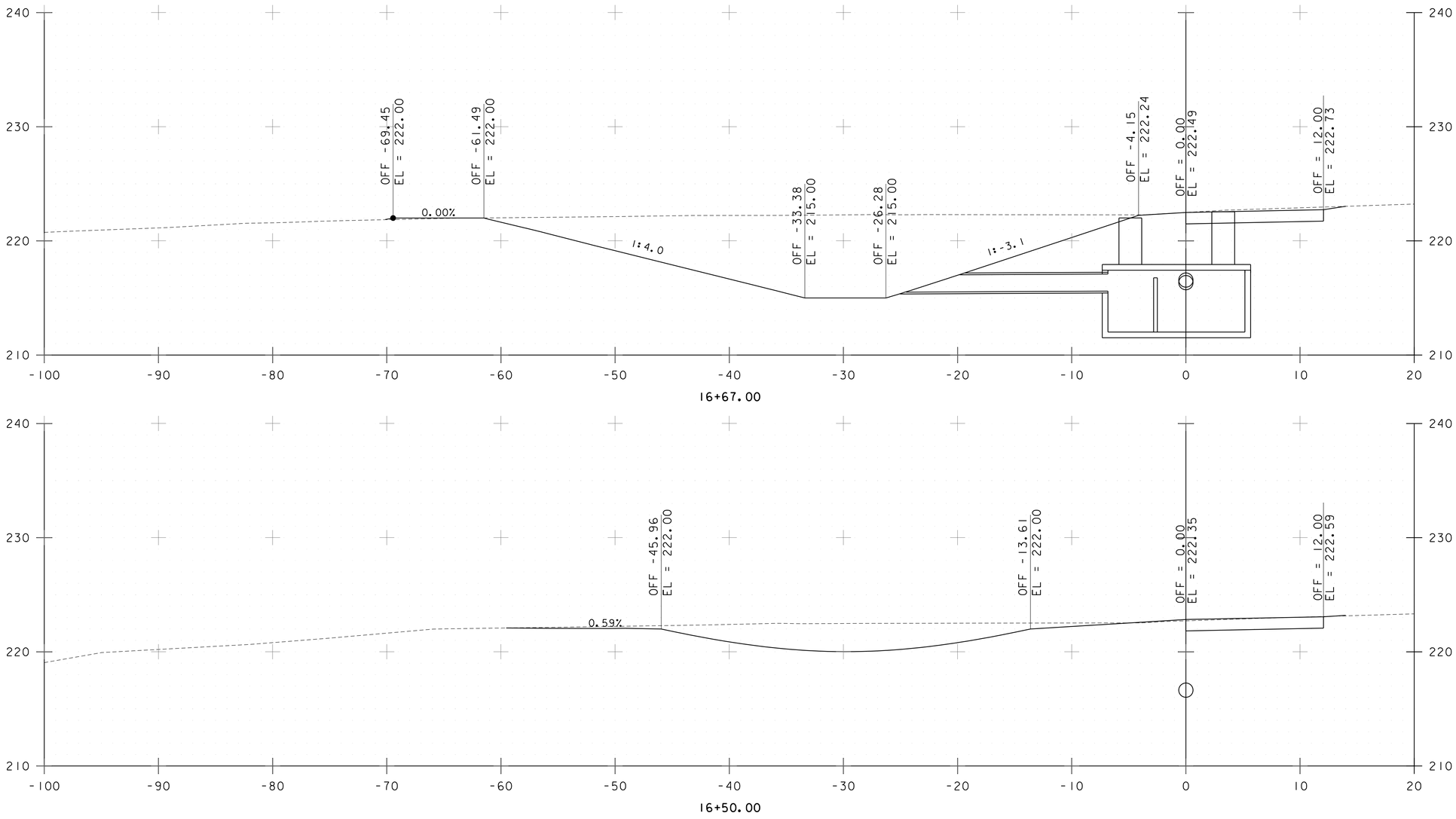
Permit-Seal

Client/Project
LINDENWOO DRIVE
DETENTION POND

STP MM19(10)

Title
ROADWAY CROSS SECTIONS SHEET 1

Project No.	Scale	
195311743	1" = 5'	
Drawing No.	Sheet	Revision
XS-1	17 of 22	0



STA. 16+50 TO STA. 16+67

SCALE IN FEET

0 5 10

10 5 0

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Issued	By	Appd.	YY.MM.DD

File Name: Dwn. Chkd. Dsgn. YY.MM.DD

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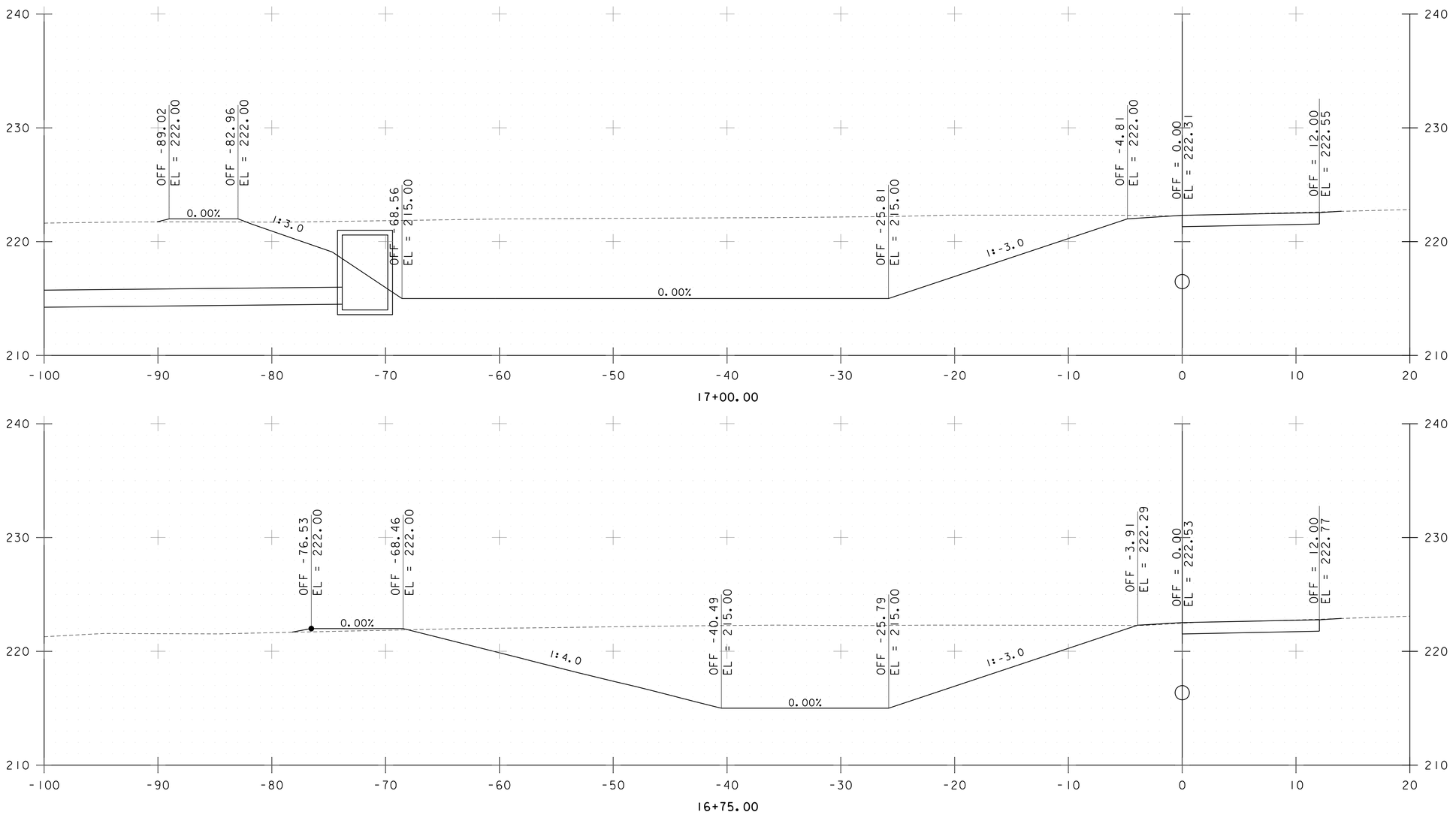
Client/Project
LINDENWOO DRIVE
DETENTION POND

STP MM19(10)

Title
BASIN CROSS SECTIONS SHEET 1

Project No.	Scale	
195311743	1" = 5'	
Drawing No.	Sheet	Revision
XS-3	18 of 22	0



STA. 16+75 TO STA. 17+00

0 5 10

SCALE IN FEET

10 5 0

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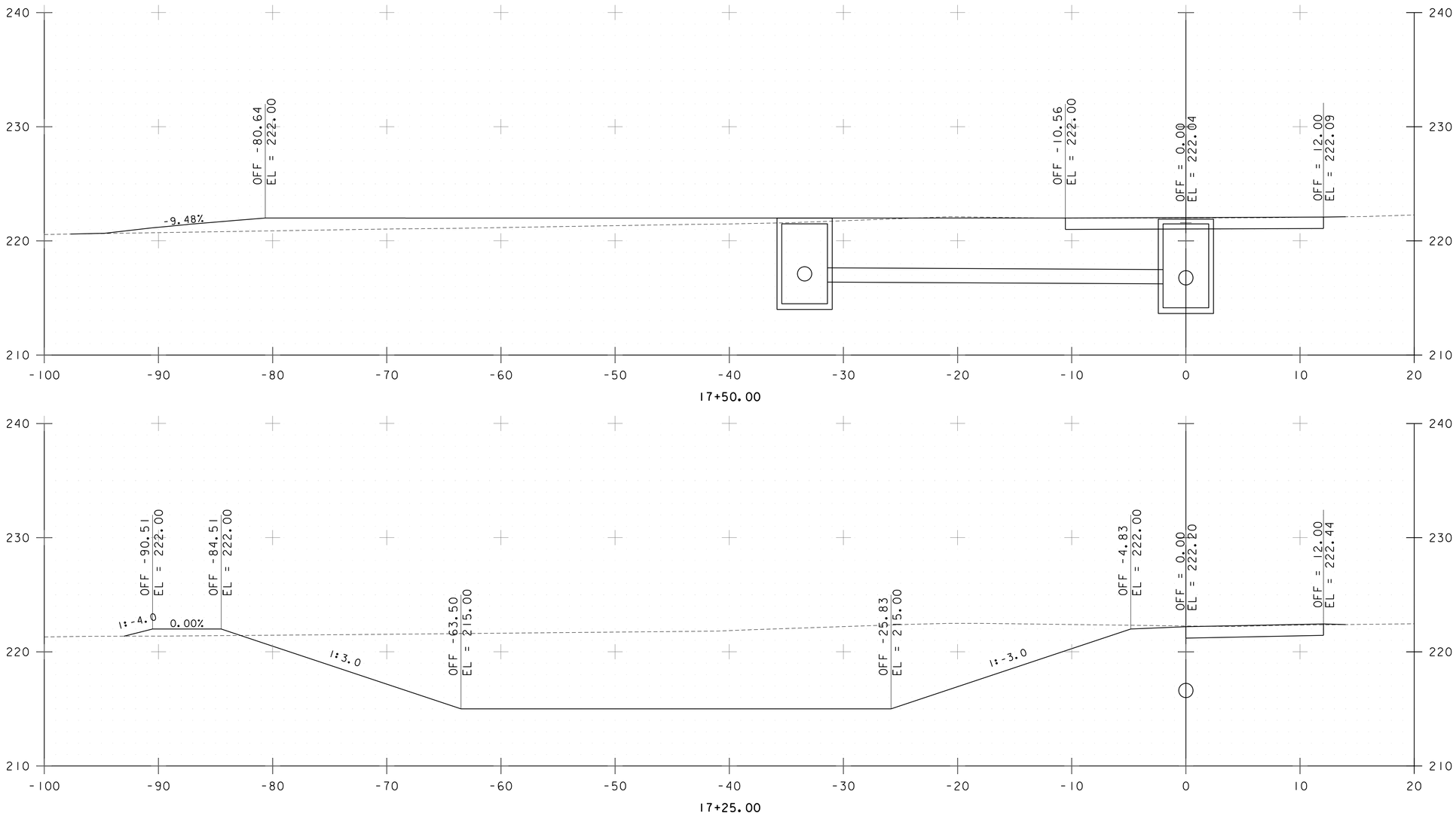
Permit-Seal

Client/Project
LINDENWOO DRIVE
DETENTION POND

STP MM19(10)

Title
BASIN CROSS SECTIONS SHEET 2

Project No.	Scale	
195311743	1" = 5'	
Drawing No.	Sheet	Revision
XS-4	19 of 22	0



STA. 17+25 TO STA. 17+50

0 5 10

SCALE IN FEET

10 5 0

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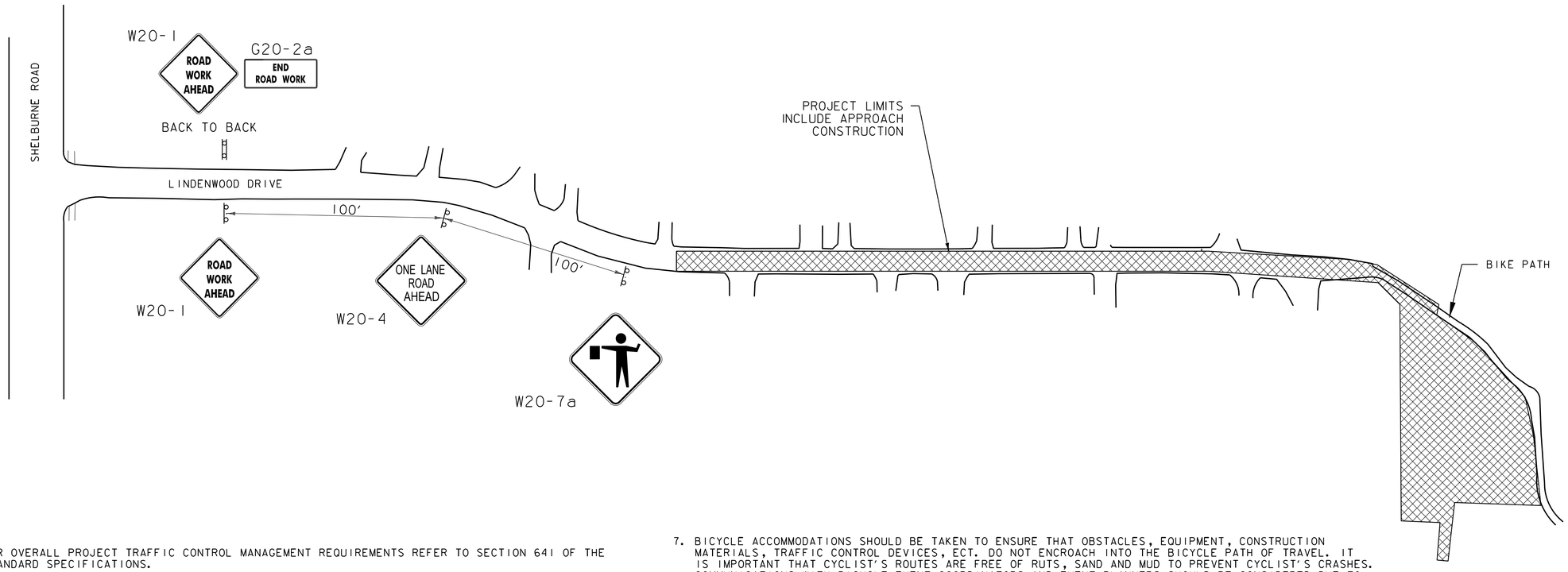
Permit-Seal

Client/Project
LINDENWOO DRIVE
DETENTION POND

STP MM19(10)

Title
BASIN CROSS SECTIONS SHEET 3

Project No.	Scale	
195311743	1" = 5'	
Drawing No.	Sheet	Revision
XS-5	20 of 22	0



NOTES:

1. FOR OVERALL PROJECT TRAFFIC CONTROL MANAGEMENT REQUIREMENTS REFER TO SECTION 641 OF THE STANDARD SPECIFICATIONS.
2. REFER TO THE VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWINGS T-1 AND T-10 FOR ADDITIONAL INFORMATION. TRAFFIC CONTROL WARNING SIGNS SHALL BE PROVIDED AS NECESSARY ON EACH APPROACH PER THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PAYMENT FOR THESE SIGNS, REFLECTORIZED DRUMS, ETC SHALL BE PAID UNDER CONTRACT ITEM 641.11 TRAFFIC CONTROL, ALL-INCLUSIVE.
3. VARIATIONS IN THE SIGNING PACKAGES MAY BE DICTATED BY UNIQUE GEOMETRY AND/OR TRAFFIC CONDITIONS.
4. CONTRACTOR TO CONTACT VTRANS SIGNAL SUPERINTENDENT (802) 343-2188 TO MARK OUT BURIED SIGNAL INFRASTRUCTURE PRIOR TO INSTALLING WORK ZONE SIGNAGE.
5. THE CONTRACTOR SHALL PROVIDE SITE SPECIFIC A TEMPORARY TRAFFIC CONTROL PLAN (TTC) STAMPED BY A VERMONT P.E. FOR REVIEW BY THE MUNICIPAL PROJECT MANAGER. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE MUNICIPAL PROJECT MANAGER APPROVES THE TTC. THIS PLAN SHALL INCLUDE SPECIFIC DETAILS TO ADDRESS PROJECT SPECIFIC SITUATIONS, PAID UNDER ITEM 641.11 - TRAFFIC CONTROL, ALL-INCLUSIVE. THIS PLAN SHALL BE CREATED IN ACCORDANCE WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND IT'S LATEST REVISIONS AND VTRANS STANDARDS. IN SITUATIONS WHERE CONFLICT EXISTS, THE MUTCD SHALL GOVERN. THE CONTRACTOR MUST ALLOW AT LEAST 4 WEEKS FOR REVIEW AND APPROVAL OF A COMPREHENSIVE PLAN AND 2 WEEKS FOR REVIEW AND APPROVAL OF MINOR CHANGES/DETAILS.
6. AN ESTIMATED QUANTITY OF ITEM 630.15 - FLAGGERS HAS BEEN INCLUDED AS IT IS ASSUMED THAT FLAGGERS MAY BE USED IF APPROVED BY THE RESIDENT ENGINEER. IF PLANNING TO USE FLAGGERS, THE CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN SHOWING THE APPROPRIATE SIGNING PER THE MUTCD. THIS ADDITIONAL SIGNING WILL BE INCIDENTAL TO ITEM 640.11 - TRAFFIC CONTROL, ALL-INCLUSIVE.
7. BICYCLE ACCOMMODATIONS SHOULD BE TAKEN TO ENSURE THAT OBSTACLES, EQUIPMENT, CONSTRUCTION MATERIALS, TRAFFIC CONTROL DEVICES, ECT. DO NOT ENCROACH INTO THE BICYCLE PATH OF TRAVEL. IT IS IMPORTANT THAT CYCLIST'S ROUTES ARE FREE OF RUTS, SAND AND MUD TO PREVENT CYCLIST'S CRASHES. COMMUNICATIONS WITH BICYCLE EVENT COORDINATORS AND EVENT PLANNERS SHOULD BE CONSIDERED DUE TO THE HIGH USE OF BICYCLES WITH IN THE PROJECT AREA.
8. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES OR COORDINATE EMERGENCY ROUTES PRIOR TO THE START OF CONSTRUCTION.
9. WHEN EXISTING PEDESTRIAN FACILITIES (SIDEWALKS OR PATHWAYS) ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, THE TEMPORARY FACILITIES SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY.
10. THE CONTRACTOR SHALL REVIEW AND USE "THE BICYCLE AND PEDESTRIAN WORK ZONE TRAFFIC CONTROL GUIDE", AVAILABLE ON THE VTRANS WEBSITE, TO INCORPORATE THE APPLICABLE BICYCLE AND PEDESTRIAN TRAFFIC CONTROL INTO THEIR SITE-SPECIFIC TRAFFIC CONTROL PLAN FOR ALL STAGES OF CONSTRUCTION.

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Issued	By	Appd.	YY.MM.DD

File Name:	PZA	BSM	JML	4/15/2022
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
CONSTRUCTION APPROACH SIGN SHEET

Project No.	Scale	
195311743	N.T.S.	
Drawing No.	Sheet	Revision
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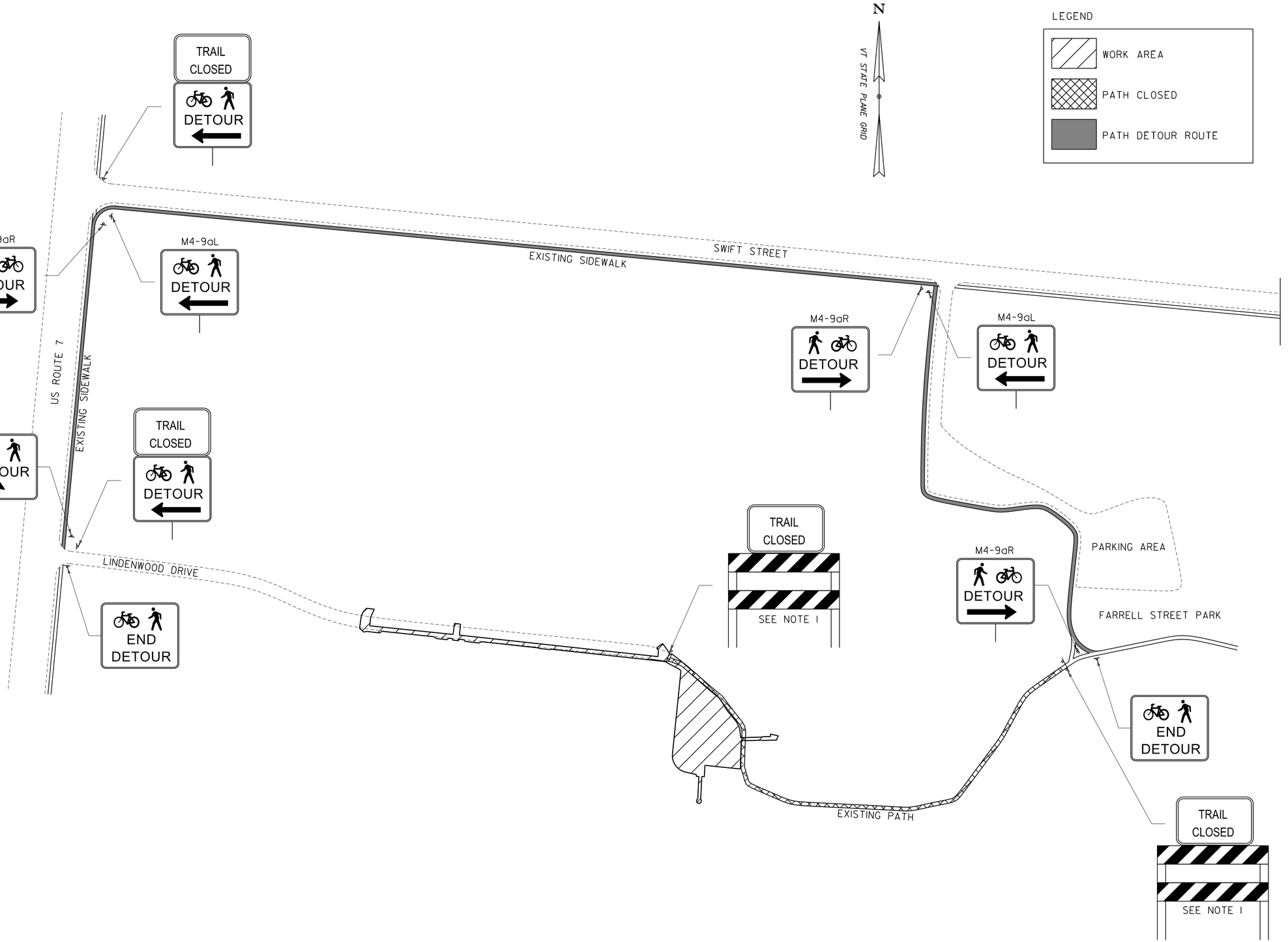

NOTES:

1. BARRICADE SHALL MEET ADA REQUIREMENTS SEE VTRANS BIKE AND PEDESTRIAN TRAFFIC CONTROL FOR WORKZONE GUIDE FOR MORE INFORMATION

Stantec

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Notes

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Permit-Seal

Client/Project
LINDENWOOD DRIVE STORMWATER DETENTION POND

STP MM 19(10)

Title
PEDESTRIAN TRAFFIC CONTROL PLAN

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195311743	N.T.S.	
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