

GENERAL NOTES:

1. NO DEBRIS WILL BE BURIED ON THIS SITE. ALL DEMOLITION WASTE AND DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
2. THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
3. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA AT LEAST THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.
4. THE CONTRACTOR SHALL PRESERVE ALL TREES AND LANDSCAPING ON THE SITE EXCEPT WHERE NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
5. THE STATE INVENTORY OF NATURAL AREAS HAS BEEN EXAMINED AND NO STATE OR FEDERALLY REGULATED WETLANDS, FLOODPLAINS OR OTHER CRITICAL AREAS WERE FOUND TO EXIST.
6. THIS SITE IS LOCATED WITHIN ZONE "X", AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD, AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP NUMBER 10001C0140K LAST REVISED 16TH MARCH 2015.

DEMOLITION, CLEARING, AND EROSION & SEDIMENT CONTROL NOTES:

1. ALL SITE DEMOLITION AND CLEARING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND ALL APPLICABLE LOCAL, COUNTY, STATE OR FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL, COUNTY, STATE OR FEDERAL DEMOLITION PERMITS BEFORE BEGINNING DEMOLITION WORK.
2. THE CONTRACTOR SHALL PROVIDE THE REQUIRED DEMOLITION AND REMOVAL OF STRUCTURES/ITEMS IN ACCORDANCE WITH THE AREAS SHOWN ON THE PLAN AND THOSE AREAS NECESSARY TO INSTALL THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH PEDESTRIAN AND VEHICULAR TRAFFIC AREAS TO PROVIDE A SAFE WORK ZONE.
3. NO DEBRIS WILL BE BURIED ON THIS SITE. ALL DEMOLITION WASTE AND DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.
4. MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL FOLLOW THE GUIDELINES SHOWN IN "TRAFFIC CONTROL FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND EMERGENCY OPERATIONS" (LATEST EDITION).
5. DEMOLITION QUANTITIES ARE APPROXIMATE BASED UPON AN INSPECTION OF THESE AREAS AND ARE TO BE USED FOR ESTIMATING PURPOSES ONLY. REMOVAL OF DAMAGED CURBS AND SIDEWALKS SHALL BE DONE TO THE EXTENT REQUIRED TO COMPLETE THE REQUIRED IMPROVEMENTS IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS PROVIDED OR REFERENCED ON THESE PLANS.

EROSION & SEDIMENT CONTROL NOTES:

1. PRE-CONSTRUCTION NOTIFICATION: SUSSEX CONSERVATION DISTRICT MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. CONTRACTOR RESPONSIBILITIES: REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
3. PLAN MODIFICATIONS: IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY SUSSEX CONSERVATION DISTRICT.
4. STABILIZATION: FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
5. MAINTENANCE: THE OWNER WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES DURING CONSTRUCTION.
6. SOIL MATTING: SOIL STABILIZATION MATTING IS REQUIRED FOR STABILIZATION OF ALL SLOPES 3:1 OR GREATER AND IN AREAS OF CONCENTRATED FLOW. MATTING SHALL BE IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST REVISION.
7. SITE DUST CONTROL: IF DUST BECOMES A PROBLEM, THE SOIL SURFACE SHALL BE SPRAYED WITH WATER UNTIL THE SURFACE IS MOIST; REPEAT AS NECESSARY TO CONTROL DUST.
8. SITE DISTURBANCE: ONLY THOSE AREAS NECESSARY TO BE DISTURBED TO CONSTRUCT THE STRUCTURES, ACCESS ROADWAYS, AND DRAINAGE FEATURES SHALL BE DISTURBED. ALL AREAS OUTSIDE OF THE LIMIT OF DISTURBANCE SHALL NOT BE DISTURBED.
9. RUNOFF: SEDIMENT LADEN RUNOFF FROM THE DISTURBED AREA DURING CONSTRUCTION SHALL NOT BE DISCHARGED FROM THE SITE.
10. SITE INSPECTIONS: THE OWNER SHALL CONDUCT WEEKLY INSPECTIONS OF EROSION AND SEDIMENT CONTROL, BMPs AND MAINTAIN A LOG NOTING INSPECTION DATE, WEATHER CONDITIONS, STAGE OF CONSTRUCTION, DEFICIENCIES THAT NEED TO BE CORRECTED, AND PREVIOUS CORRECTIVE ACTIONS TAKEN ON THE SITE.
11. PLAN: A COPY OF THIS PLAN AND THE COMPLETED NOTICE OF INTENT (NOI) SHALL BE MAINTAINED AT THE SITE.

POLLUTION PREVENTION MEASURES:

1. STANDARD DETAIL: ALL POLLUTION PREVENTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK STANDARD DETAIL DE-ESC-3.6.1.
2. MATERIAL HANDLING: CONSTRUCTION MATERIALS SHALL BE STORED IN ORIGINAL CONTAINERS, PROPERLY LABELED AND COVERED.
3. WASTE MANAGEMENT: WASTE MATERIALS SHALL BE RECYCLED WHENEVER POSSIBLE. OTHERWISE, WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED DUMPSTERS, WHICH SHALL BE EMPTIED AS NECESSARY TO PREVENT OVERFILLING.
4. WASHOUT AREAS: A DESIGNATED LOCATION FOR CONCRETE WASHOUT SHALL BE ESTABLISHED ON THE SITE. ALL CONCRETE WASHOUT SHALL BE DEPOSITED IN THE DESIGNATED LOCATION, ALLOWED TO HARDEN, AND THEN DISPOSED OF PROPERLY FOLLOWING CONSTRUCTION.
5. EQUIPMENT AND VEHICLE FUELING AND MAINTENANCE: PERFORM ALL ROUTINE EQUIPMENT WASHING AND MAINTENANCE AT AN OFFSITE COMMERCIAL LOCATION. REFUEL USING FUEL NOZZLES WITH AUTOMATIC SHUT-OFF VALVES AT A LOCATION AWAY FROM DRAINAGE WAYS. INSPECT EQUIPMENT FOR LEAKS ON A DAILY BASIS. FOR EMERGENCY EQUIPMENT REPAIRS USE DRIP PANS AND CONTAIN THE EQUIPMENT LOCATION WITH AN EARTHEN BERM TO PREVENT POLLUTANTS FROM BEING DISCHARGED TO A DRAINAGE WAY.
6. SPILL PREVENTION AND CONTROL: SPILL KITS SHALL BE READILY ACCESSIBLE ON THE SITE. IN THE EVENT OF A SPILL, DNREC EMERGENCY RESPONSE WILL BE NOTIFIED AT 1-800-662-8802.
7. ALLOWABLE NON-STORMWATER DISCHARGES: WASH WATER NOT CONTAINING DETERGENTS, UNCONTAMINATED WATER LINE FLUSHINGS AND CONDENSATE, AND UNCONTAMINATED WATER FROM DEWATERING OPERATIONS MAY BE DISCHARGED FROM THE SITE IN A WAY THAT DOES NOT PRODUCE EROSION OR A SEDIMENT LADEN DISCHARGE.

SITE REHABILITATION PLANS

PREPARED FOR:

LAVERTY LANE APARTMENTS



SITE LOCATION PLAN

SCALE: 1"=100'

PARCEL ID NO.:

1-31-10.00-84.00

SITUATE IN

TOWN OF BRIDGEVILLE
SUSSEX COUNTY * STATE OF DELAWARE

ENGINEER'S CERTIFICATION

I, ROGER A. GROSS, P.E. HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF DELAWARE, AND THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

ROGER A. GROSS, P.E.
MERESTONE CONSULTANTS, INC.
35516 CROSSING AVENUE, UNIT 1
LEWES, DE 19958
(302) 226-5880

DATE:

DATE: 16 MAY 2016

REVISED 14 JULY 2016 PER CLIENT REVIEW

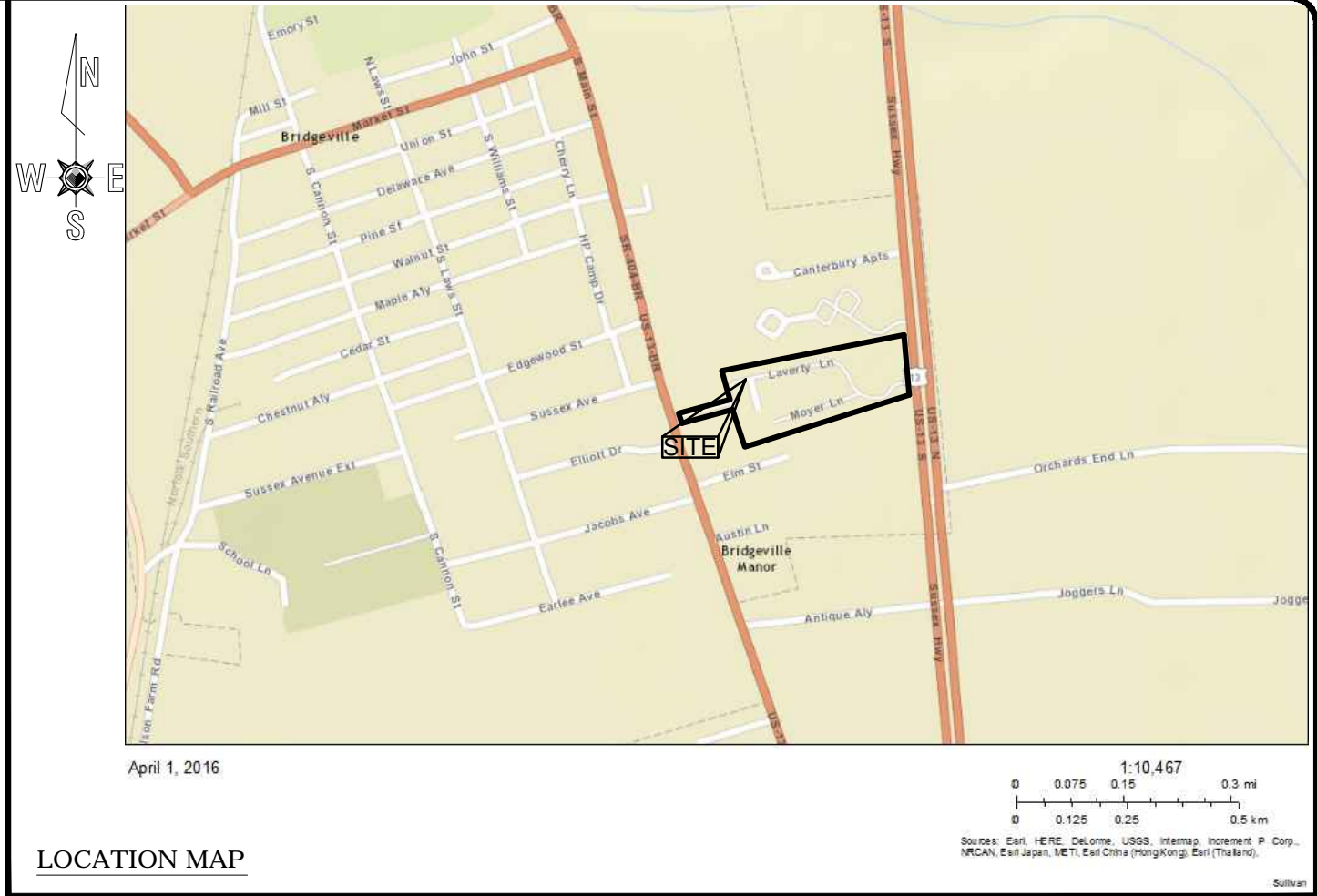


MERESTONE
CONSULTANTS, INC.

ENGINEERS - PLANNERS - SURVEYORS

5215 W. WOODMILL DRIVE
WILMINGTON, DE 19808 PHONE:
302-992-7900 FAX: 302-992-7911

35516 CROSSING AVENUE, UNIT 1
FIVE POINTS CROSSING
LEWES, DE 19958
PHONE: 302-226-5880



LOCATION MAP

PARCEL DATA:

PARCEL IDENTIFICATION NO.	*	131-10.00-84.00
ZONING DISTRICT	*	R2
OWNERS	*	DELAWARE STATE HOUSING AUTHORITY 26 THE GREEN DOVER, DE 19901
PROPERTY ADDRESS	*	LAVERTY LANE BRIDGEVILLE, DE 19933
PARCEL AREAS	*	GROSS= 10.03 ACRES LIMIT OF DISTURBANCE= 2.81 ACRES PAVEMENT MILLING AND OVERLAY= 1.23 ACRES FULL DEPTH PAVEMENT REPAIR= 0.08 ACRES DRIVEWAY AREAS= 0.50 ACRES
SOURCE OF TITLE	*	DB 1516, PG 170
HORIZONTAL DATUM	*	NAD 83 / CORS 96 EPOCH 2010.0.0

LEGEND

PROPERTY LINE				
FENCE LINE			UTILITY POLE	
OVERHEAD ELECTRIC			FIRE HYDRANT	
PAVEMENT ROTOMILLING & OVERLAY			LIGHT POLE	
DEMOLITION & FULL DEPTH PAVEMENT			WATER VALVE	
CONCRETE			CLEAN OUT	
SPEED BUMP			SANITARY MANHOLE	
SILT FENCE			REPAIR/CONSTRUCTION DETAIL	
LIMITS OF DISTURBANCE				
SILT FENCE & LIMITS OF DISTURBANCE				

DEMOLITION TABLE			
DETAIL NUMBER	TYPE	DIMENSIONS	AMOUNT OF REMOVAL
1	FULL DEPTH PAVEMENT	± 148' X 16'	± 2,370 SQ. FT.
2	FULL DEPTH PAVEMENT	± 10' X 22'	± 228 SQ. FT.
2	PARTIAL DEPTH CONCRETE	± 7' X 3'	± 21 SQ. FT.
3	FULL DEPTH PAVEMENT	± 63' X 11'	± 717 SQ. FT.
4	CONCRETE SLAB	± 21' X 8'	± 142 SQ. FT.
4	REPLACE CURB	± 4 L.F.	± 4 L.F.
5	REPLACE CURB	4 L.F.	4 L.F.
5	REPLACE CURB	4 L.F.	4 L.F.
N/A	STREET MILL & OVERLAY	N/A	± 53,074 SQ. FT.
N/A	DRIVEWAY MILL & OVERLAY	N/A	± 21,327 SQ. FT.

NOTE: DIMENSIONS QUANTITIES ARE APPROXIMATE BASED UPON AN INSPECTION OF THESE AREAS AND ARE TO BE USED FOR ESTIMATING PURPOSES ONLY. REMOVAL OF DAMAGED CURBS AND SIDEWALKS SHALL BE DONE TO THE EXTENT REQUIRED TO COMPLETE THE REQUIRED IMPROVEMENTS IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS PROVIDED OR REFERENCED ON THESE PLANS.

SHEET INDEX:

COVER PLAN
DEMOLITION & SITE REHABILITATION PLANS
RESTORATION NOTES & DETAILS PLAN
EROSION & SEDIMENT CONSTRUCTION DETAILS PLAN
EROSION & SEDIMENT CONSTRUCTION DETAILS PLAN

SHEET NO. 1
SHEET NO. 2
SHEET NO. 3
SHEET NO. 4
SHEET NO. 5



Know what's below.
Call before you dig.

Call Before You Dig!
Delaware Law Requires
3 Working Days Notice for
Construction Phase and 10 Working
Days in Design Stage - Stop Call
1-800-257-7777

LINES AND GRADES NOTES:

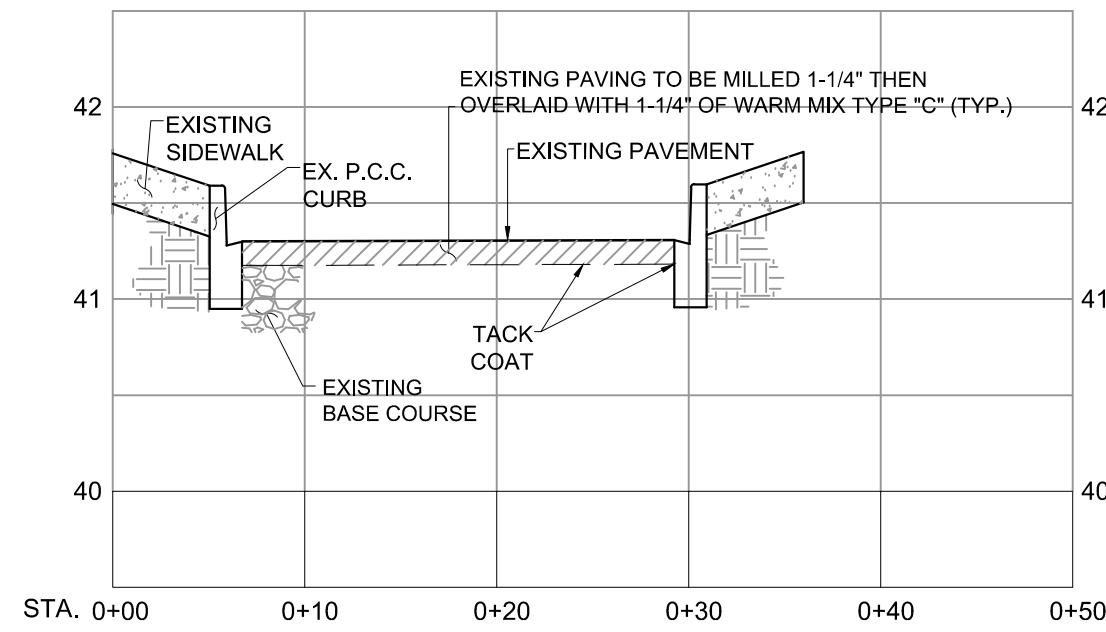
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION METHODS, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS" FOR ROAD AND BRIDGE CONSTRUCTION DATED AUGUST, 2001 AND ANY ADDENDA THERETO.
- ALL EROSION AND SEDIMENT CONTROL, STORMWATER MANAGEMENT AND DRAINAGE DESIGN SHALL BE IN ACCORDANCE WITH THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS AND WITH THE SUSSEX COUNTY CONSERVATION DISTRICT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL REQUIRED LOCAL, STATE AND FEDERAL PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND REVIEWED ALL REQUIRED PERMITS, PLANS, SPECIFICATIONS AND APPLICABLE AGENCY PERMITTING REQUIREMENTS.
- ALL SIGNING FOR MAINTENANCE OF TRAFFIC IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL FOLLOW THE GUIDELINES SHOWN IN "TRAFFIC CONTROL FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND EMERGENCY OPERATIONS" (LATEST EDITION).
- DESIGN, FABRICATION, AND INSTALLATION OF ALL PERMANENT SIGNING SHALL BE AS OUTLINED IN THE "GUIDE FOR FABRICATION AND INSTALLATION OF TRAFFIC CONTROL DEVICES".
- PAVEMENT STRIPING MATERIAL SHALL BE LOW VOC, SOLVENT BASED ACRYLIC ACETONE OR APPROVED EQUIVALENT, UNLESS OTHERWISE NOTED, ALL STRIPING SHALL BE 4 INCHES WIDE.
- THE FOLLOWING STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2001 ARE INCORPORATED HEREIN BY REFERENCE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REFER TO THE APPLICABLE STANDARD SPECIFICATIONS AND INSURE THE ALL MATERIAL, CONSTRUCTION METHODS AND WORKMANSHIP ARE IN ACCORDANCE WITH THESE STANDARDS.
DIVISION 200 EARTHWORK
SECTION 201 CLEARING AND GRUBBING
SECTION 202 EXCAVATION AND EMBANKMENT
SECTION 209 BORROW
SECTION 211 REMOVAL OF STRUCTURES AND OBSTRUCTIONS
SECTION 212 UNDERCUT EXCAVATION
SECTION 251 SILT FENCE
DIVISION 300 BASES
SECTION 301 SELECT BORROW BASE COURSE
SECTION 302 GRADED AGGREGATE BASE COURSE
DIVISION 400 BITUMINOUS PAVEMENTS
SECTION 401 HOT MIX, HOT-LAID BITUMINOUS CONCRETE PAVEMENT
SECTION 406 HOT-MIX PATCHING
DIVISION 500 RIGID PAVEMENT
SECTION 501 PORTLAND CEMENT CONCRETE PAVEMENT
SECTION 503 PATCHING PORTLAND CEMENT CONCRETE PAVEMENT
DIVISION 700 MISCELLANEOUS CONSTRUCTION
SECTION 701 CURB AND INTEGRAL CURB & GUTTER
SECTION 705 PORTLAND CEMENT CONCRETE SIDEWALK
SECTION 732 TOPSOIL
SECTION 733 TOPSOILING
SECTION 734 SEEDING
SECTION 735 MULCHING

SECTION 748 PAVEMENT MARKINGS
SECTION 758 REMOVAL OF PORTLAND CEMENT
SECTION 760 PAVEMENT - MILLING
SECTION 761 BUTT JOINTS
SECTION 762 SAW CUTTING PORTLAND CEMENT AND HOT-MIX, HOT-LAID BITUMINOUS CONCRETE
DIVISION 800 MATERIAL DETAILS
SECTION 803 WATER FOR MIXING PORTLAND CEMENT
SECTION 804 FINE AGGREGATE
SECTION 805 COARSE AGGREGATE
SECTION 807 MATERIAL FOR RESEALING JOINTS AND CRACKS
SECTION 808 JOINT SEALS AND SEALANT
SECTION 811 EMULSIFIED ASPHALT
SECTION 812 PORTLAND CONCRETE CEMENT
SECTION 821 GRADED AGGREGATES
SECTION 823 HOT-MIX, HOT-LAID BITUMINOUS CONCRETE

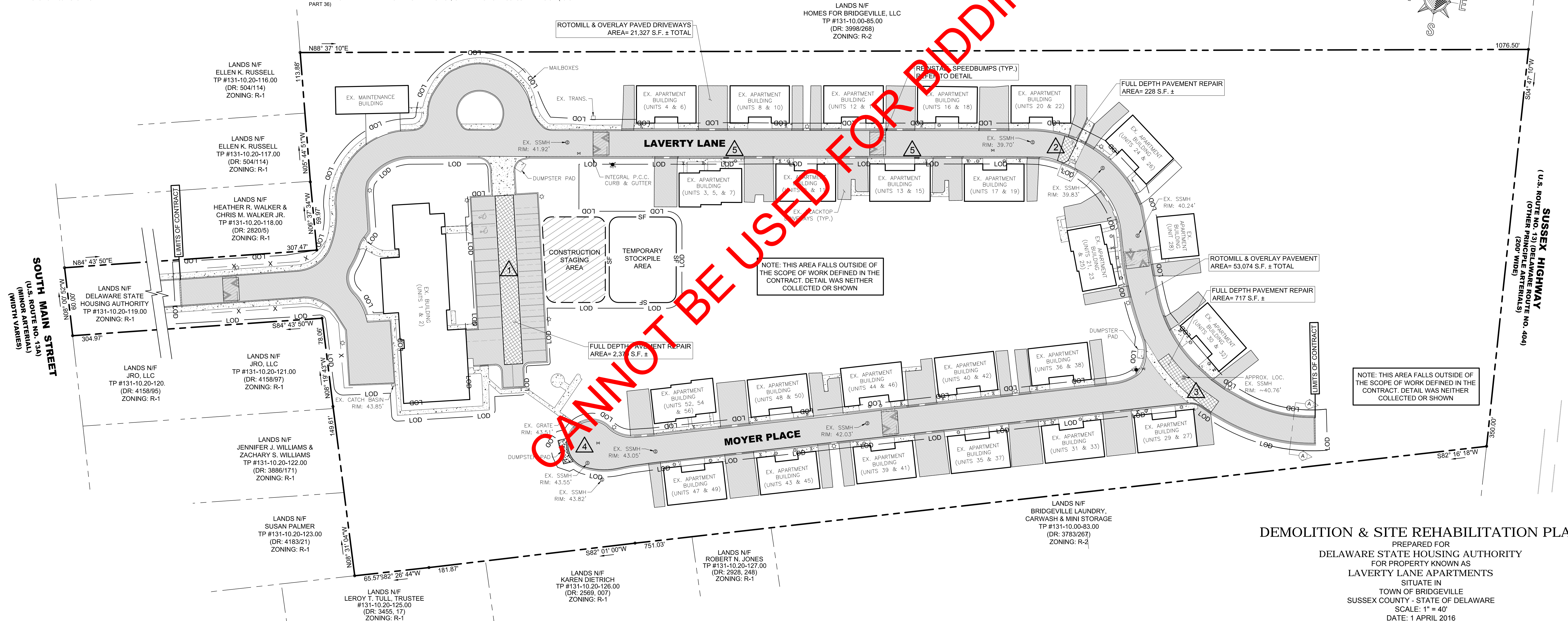
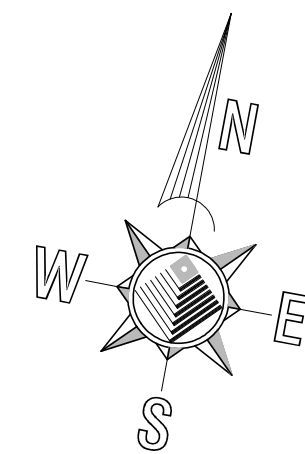
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO MILL EXISTING ASPHALT SURFACES TO THE DESIGNATED DEPTH AS SHOWN ON THE PLANS IN PREPARATION FOR THE PAVEMENT OVERLAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF ALL PAVEMENT OVERLAY AREAS INCLUDING REMOVAL AND REPLACEMENT OF SUB-GRADE AND SURFACE FAILURES, ALL AREAS SHOWING EXCESSIVE PAVEMENT OR BASE FATIGUE OR FAILURE SHALL BE EXCAVATED A MINIMUM OF 12-INCHES INTO SATISFACTORY PAVEMENT SURROUNDING THE AREA TO BE PATCHED AND REPAIRED TO FULL DEPTH AS APPROVED BY THE OWNER.
- THE MILLED SURFACE SHALL BE FREE FROM GOUGES, LOOSE, MATERIAL, SILT SPOTS, VEGETATION RIDGES, SOOT, OIL FILM AND OTHER DELETERIOUS MATERIALS OR IMPERFECTIONS OF WORKMANSHIP PRIOR TO APPLYING THE PAVEMENT OVERLAY.
- MILLING ELEVATIONS MUST BE COMPLETED AS CLOSE TO UTILITY CASTINGS AS POSSIBLE, WITH REMAINING ASPHALT SURFACE TO BE REMOVED BY APPROPRIATE EQUIPMENT OR CUT OUT BY CONVENTIONAL METHODS. THE FINISHED GRADE OF THE STRUCTURE SHALL BE RAISED TO MATCH THE SURROUNDING FINISHED PAVING SURFACE, WHERE APPLICABLE.
- WHERE THE PLANS CALL FOR MATCHING EXISTING PAVEMENT, THE CONTRACTOR SHALL PROVIDE CUT JOINT AND/OR ASPHALT OVERLAY AS INDICATED ON THE PLANS. TRANSVERSE TIE-INS ON MILLED SURFACES SHALL HAVE A MINIMUM TAPER OF 4-FEET.
- RESTORATION OF ALL DISTURBED AREAS INCLUDING THE REPLACEMENT OF ANY DAMAGED OR DESTROYED LANDSCAPING EFFECTED BY THE REMOVAL AND/OR PLACEMENT OF PAVING, CURBS AND SIDEWALKS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISTURBED AREAS SHALL RECEIVE, AT A MINIMUM, 6" TOPSOIL, FERTILIZED AND SEEDED.
- PLAN LOCATION AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF IT IS DETERMINED THERE ARE DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY TO DETERMINE A SUITABLE RESOLUTION.
- MARKING, IDENTIFICATION, AND ACCESSIBILITY OF FIRE LANES, EXITS, FIRE HYDRANTS, SPRINKLER, AND STANDPIPE CONNECTIONS SHALL BE IN ACCORDANCE WITH PART V, CHAPTER 5 OF THE DELAWARE STATE FIRE PREVENTION REGULATIONS. HANDICAPPED PARKING AND RAMPS SHALL BE MARKED IN ACCORDANCE WITH THE AMERICAN DISABILITIES ACT, STANDARDS FOR ACCESSIBLE DESIGN (28 CFR PART 36)

SEQUENCE OF CONSTRUCTION

- ARRANGE A PRE-CONSTRUCTION MEETING.
a) Review the site plan & layout. Discuss any problems or necessary field changes.
b) Obtain necessary approvals and/or permits for any plan changes made.
c) Inspect all materials for concurrence with the plan and the standard specifications.
- SITE LAYOUT
a) make sure site layout agrees with the plan.
b) physically mark any areas not to be disturbed, such as limit of disturbance (lod), wetlands, property lines, etc...
- CLEAR AND GRUB AREAS DESIGNATED FOR EROSION AND SEDIMENT CONTROLS.
a) install silt fencing or construction safety fencing around areas designated for demolition.
b) install additional erosion and sediment controls, as deemed necessary, in accordance with the standard specification.
- BEGIN SITE DEMOLITION
a) contact "miss utility" at 1-800-282-8555 three (3) days prior to digging.
b) the contractor shall be responsible for obtaining all necessary local, county, state or federal demolition permits before beginning demolition work.
c) disconnect/abandon utility service connections as required in accordance with the applicable utility company's requirements.
d) demolish structures/items as shown on the plan and required and required to install the proposed improvements. Debris shall be temporarily stockpiled at the location shown on the plan until removed to an approved location.
- INSTALL REQUIRED IMPROVEMENTS
a) install new curbing, sidewalks and ramps. refer to the lines & grades plan(s) and the standard specifications for minimum requirements.
b) all areas showing excessive pavement or base fatigue or failure shall be excavated a minimum of 12-inches into satisfactory pavement surrounding the area to be patched and repaired to full depth.
c) the finished grade of surface utility castings and structures shall be raised to match the surrounding finished paving surface.
d) the contractor shall provide milling operations, cut joint and/or asphalt overlay as indicated on the plans.
- SITE RESTORATION
a) all disturbed areas shall be restored including the replacement of any damaged or destroyed landscaping effected by the removal and/or placement of paving, curbs and sidewalks will be the responsibility of the contractor. all disturbed shall receive, at a minimum, 6" topsoil, fertilized and seeded.




CROSS-SECTION A-A
HORIZONTAL: 1"=10'
VERTICAL: 1"=1'



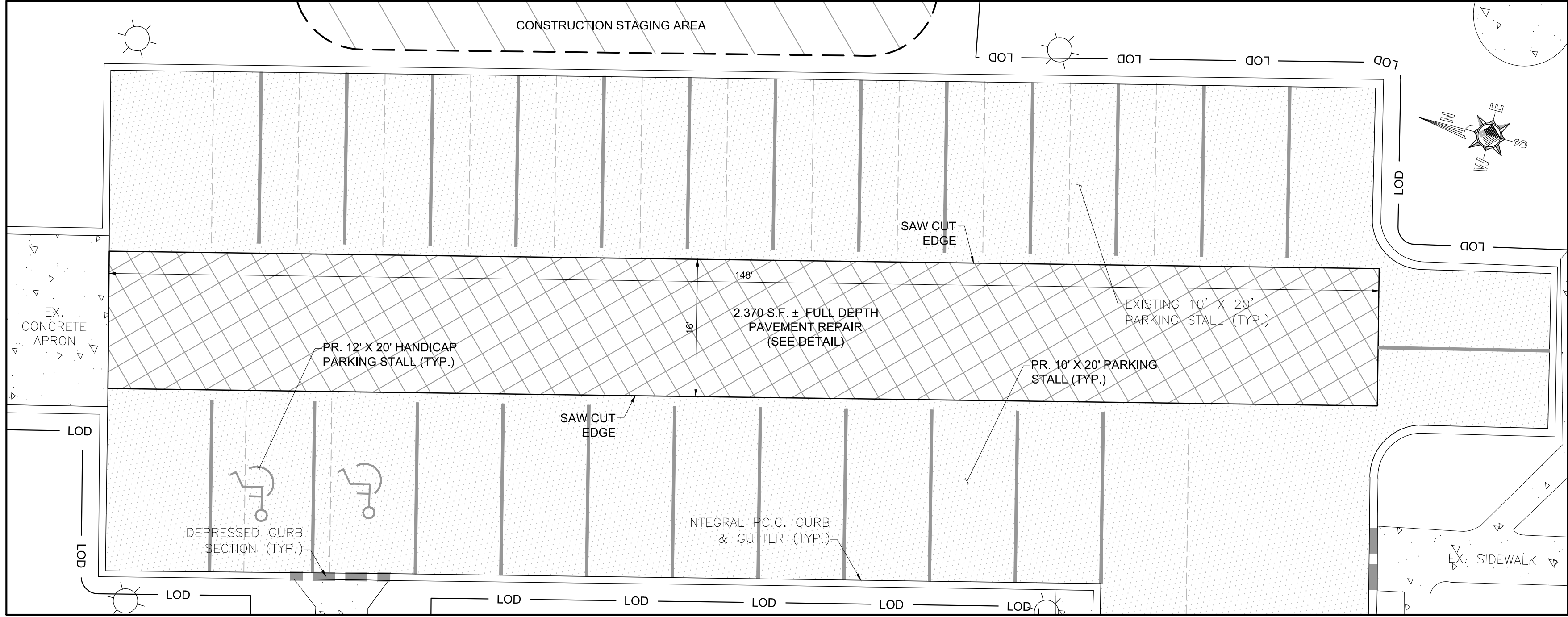
DEMOLITION & SITE REHABILITATION PLAN

PREPARED FOR
DELAWARE STATE HOUSING AUTHORITY
FOR PROPERTY KNOWN AS
LAVERTY LANE APARTMENTS
SITUATE IN
TOWN OF BRIDGEVILLE
SUSSEX COUNTY - STATE OF DELAWARE
SCALE: 1" = 40'
DATE: 1 APRIL 2016

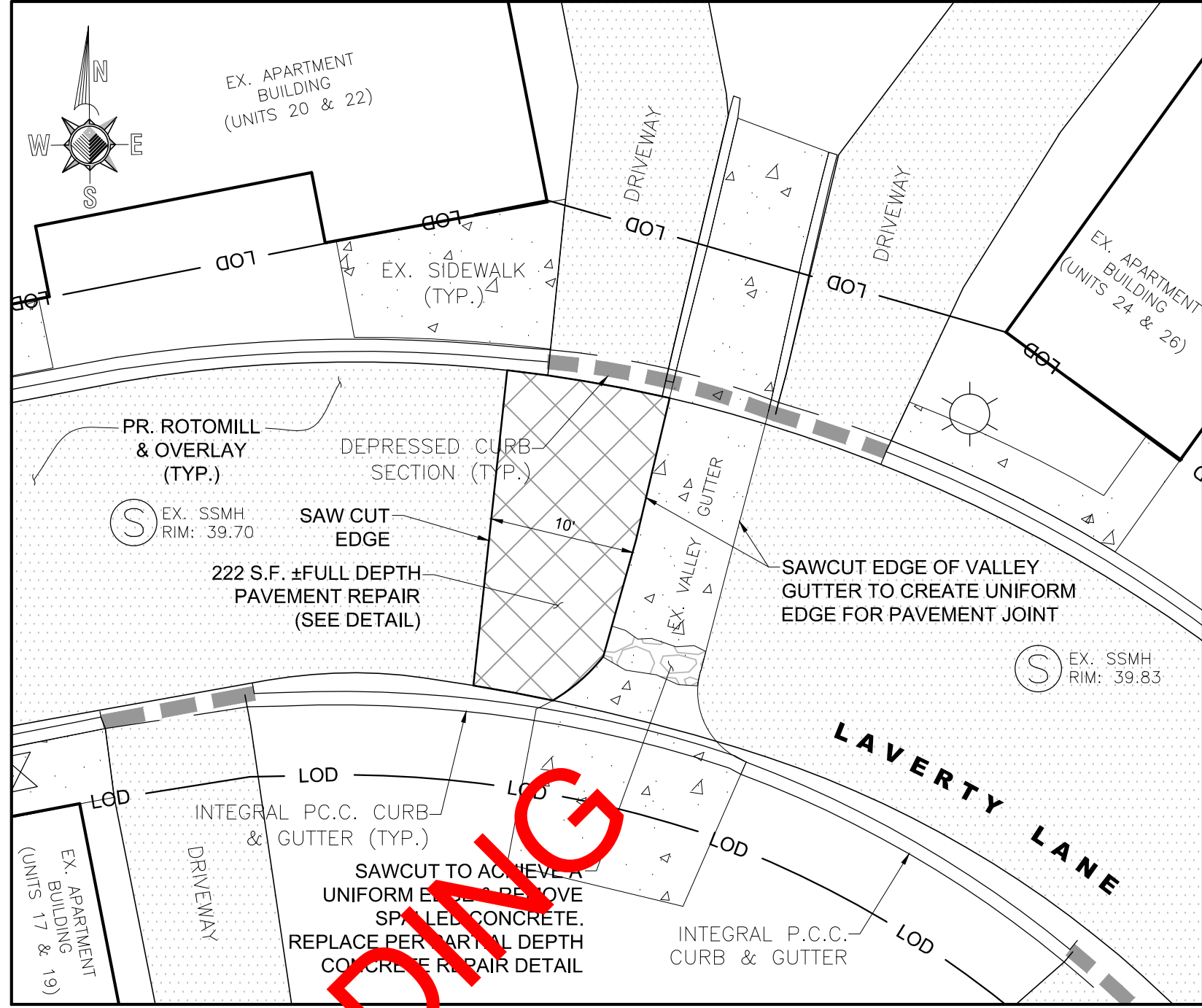
				M E R E S T O N E CONSULTANTS, INC. ENGINEERS - PLANNERS - SURVEYORS	
			5215 WEST WOODMILL DRIVE		33516 CROSSING AVENUE, UNIT 1
			WILMINGTON, DE 19808		FIVE POINTS SQUARE
			PH: 302-992-7900		LEWES, DE 19958
			FAX: 302-992-7911		PH: 302-226-5880
7/14/16	PER CLIENT REVIEW	RAG			
DATE	REVISION	CHKD	DRAWN BY: HMF	DATE: 01 APRIL 2016	SHEET# 2 OF 5

APPROVED: ROGER A. GROSS, P.E.

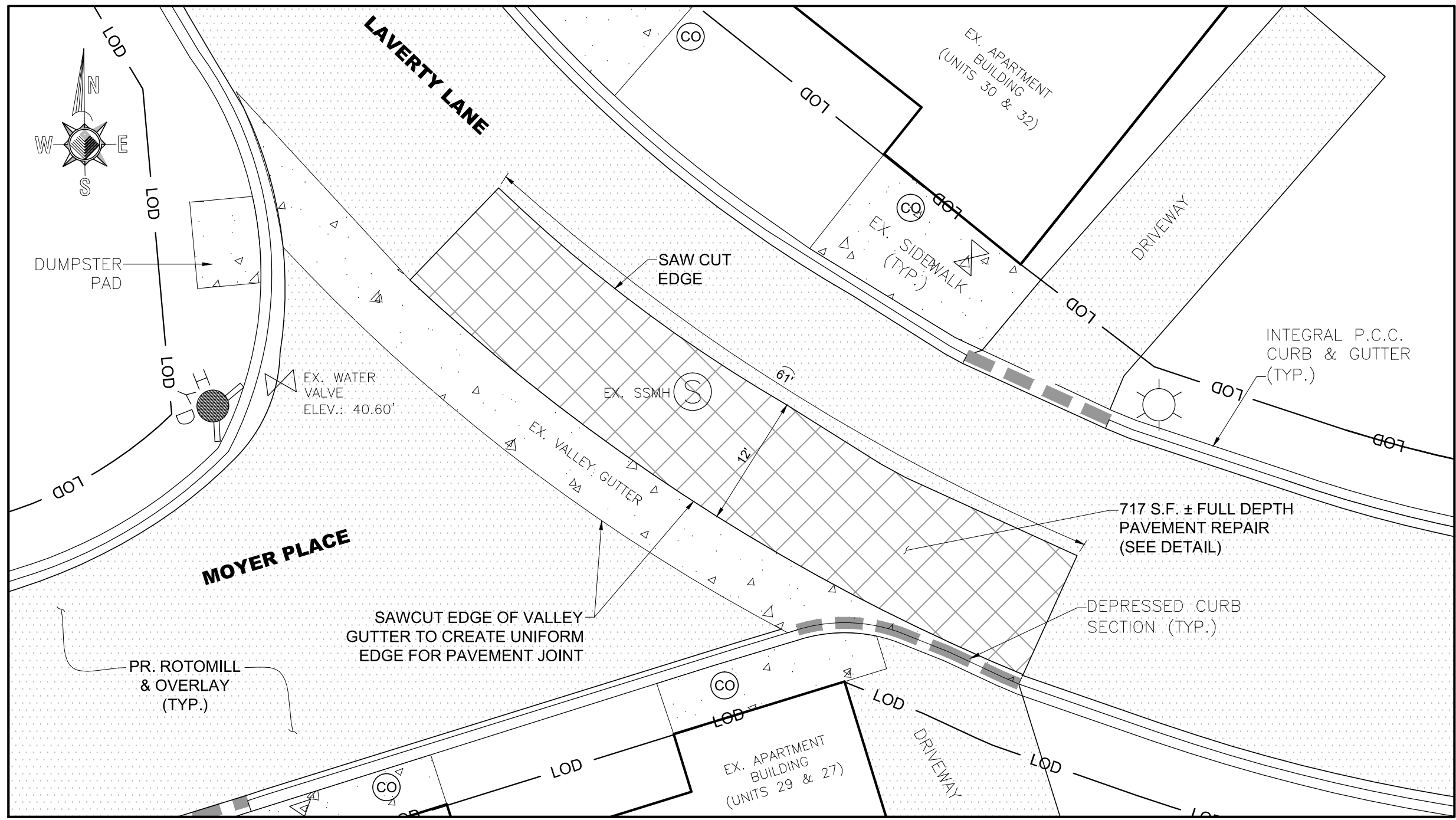
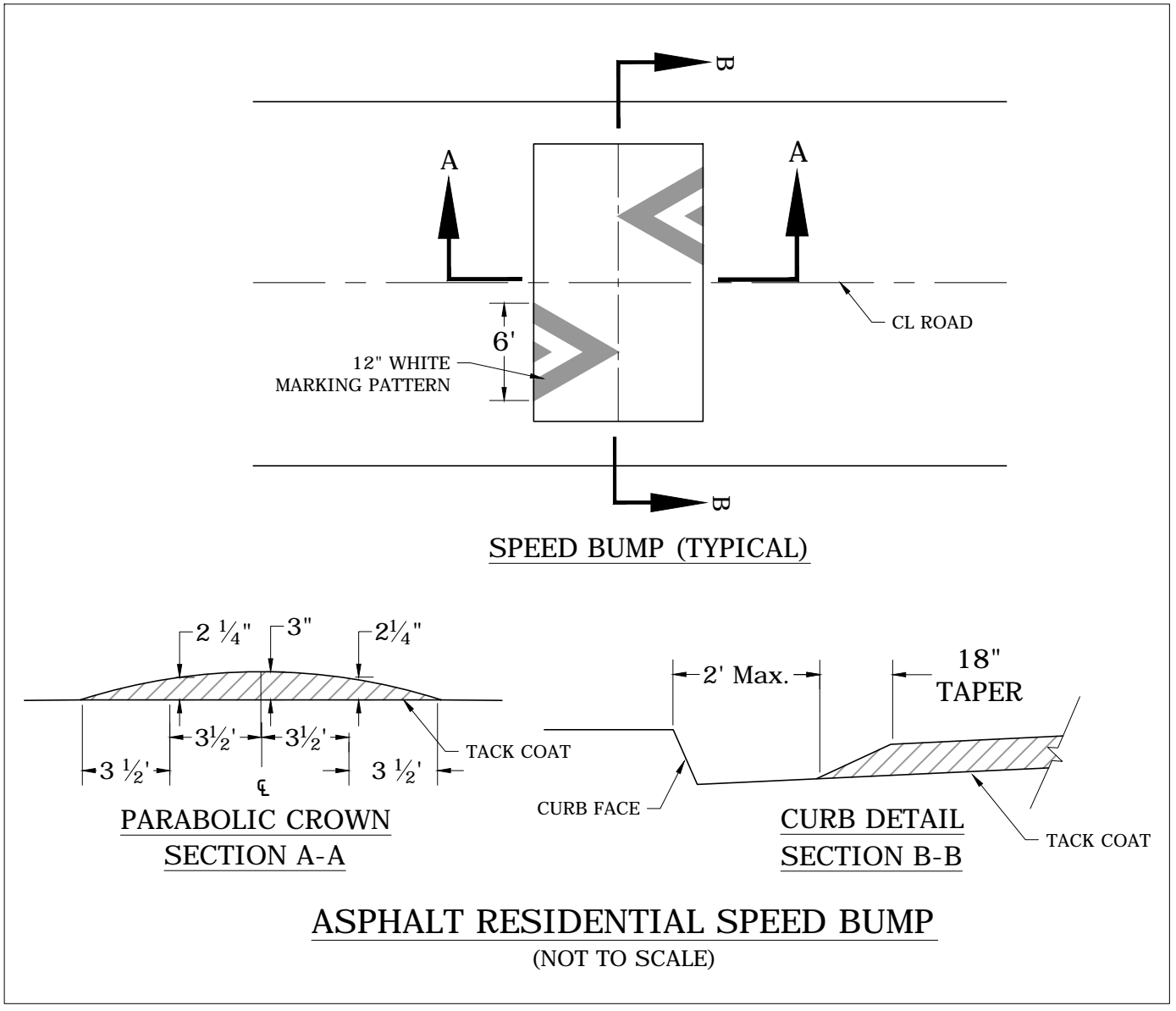
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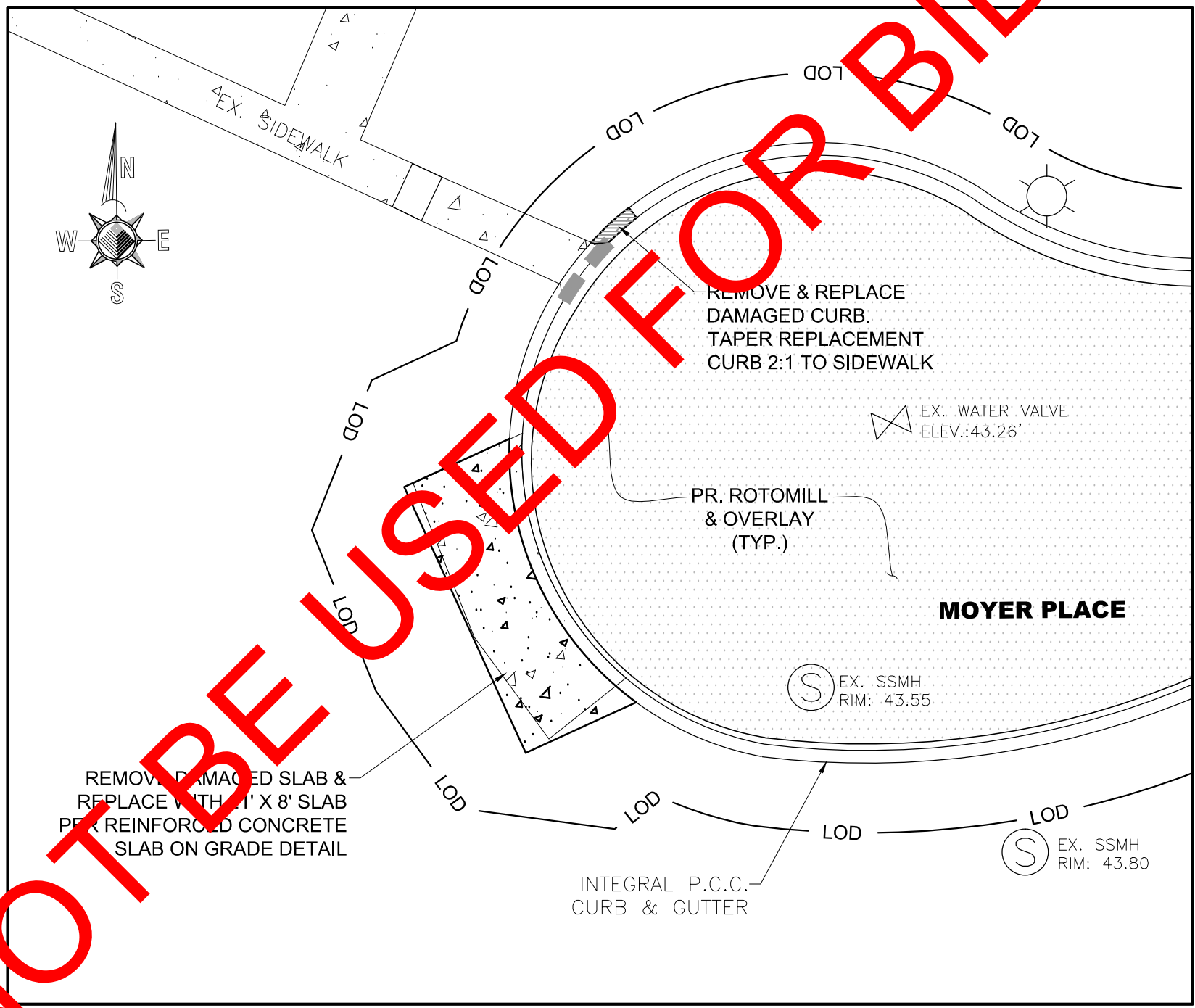
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SCALE: 1"=10'



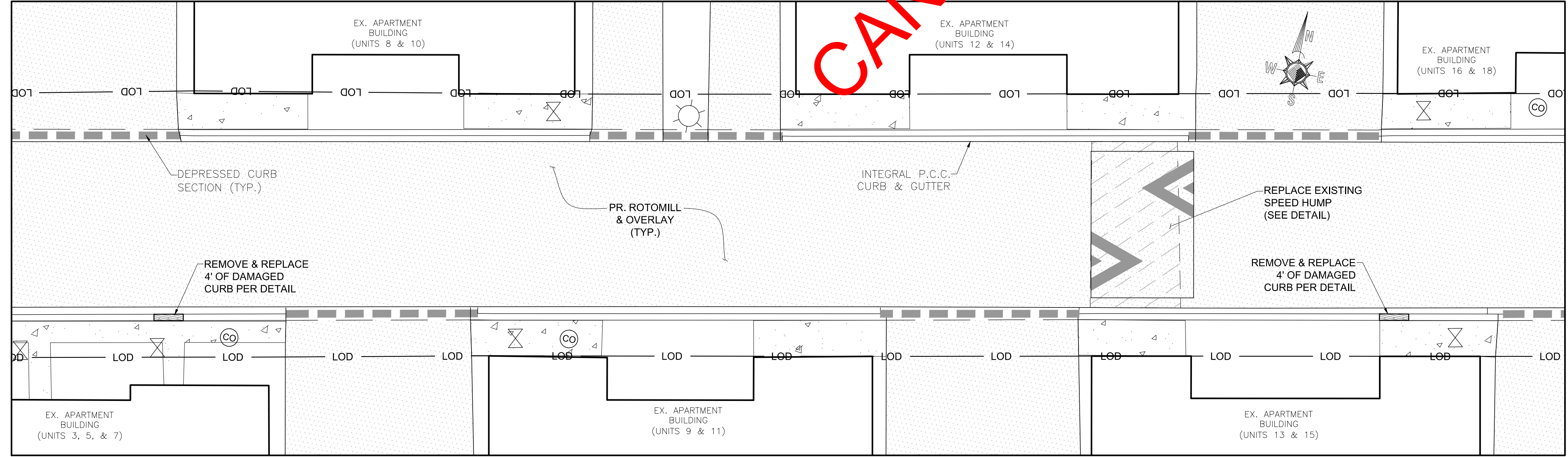
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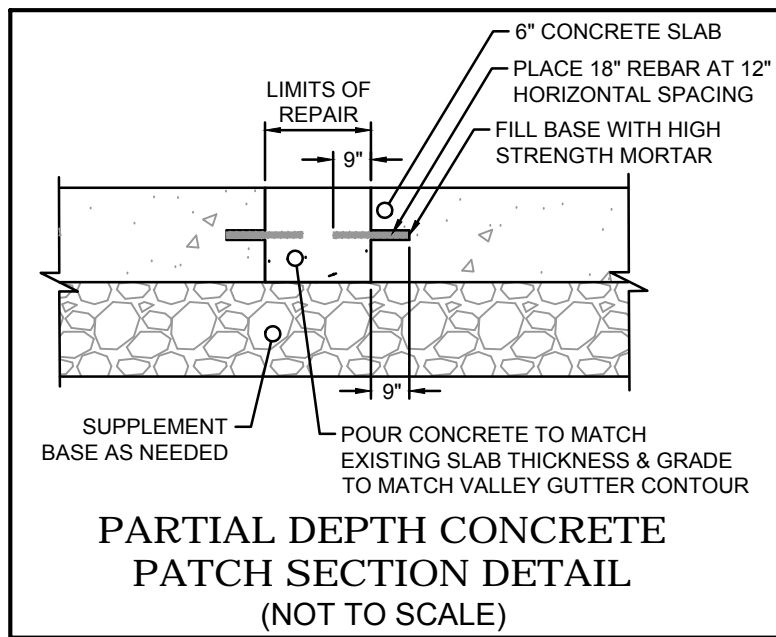
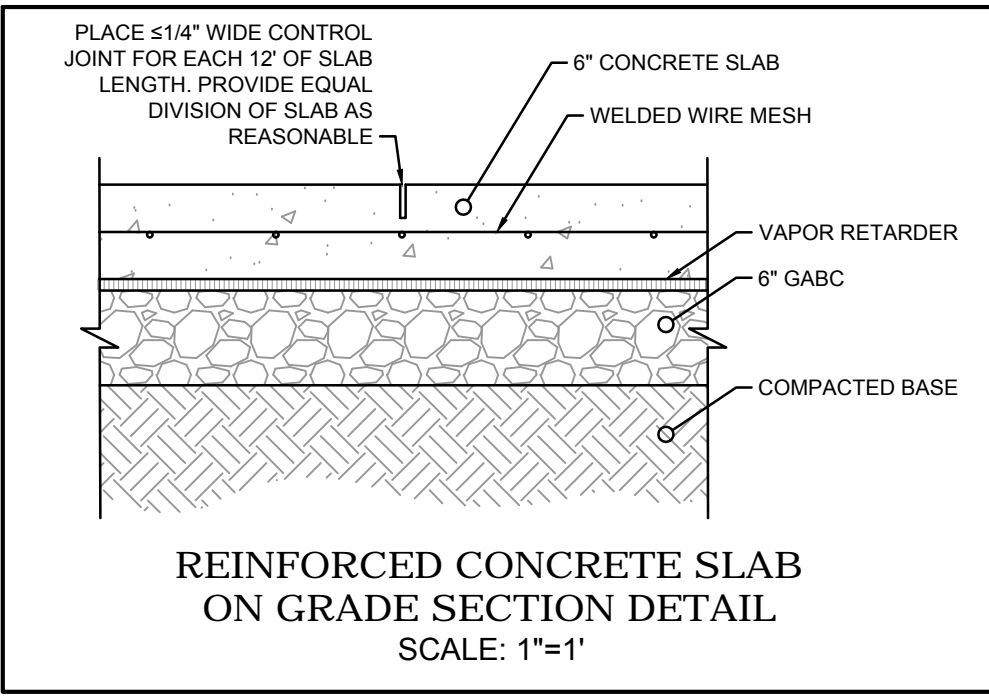
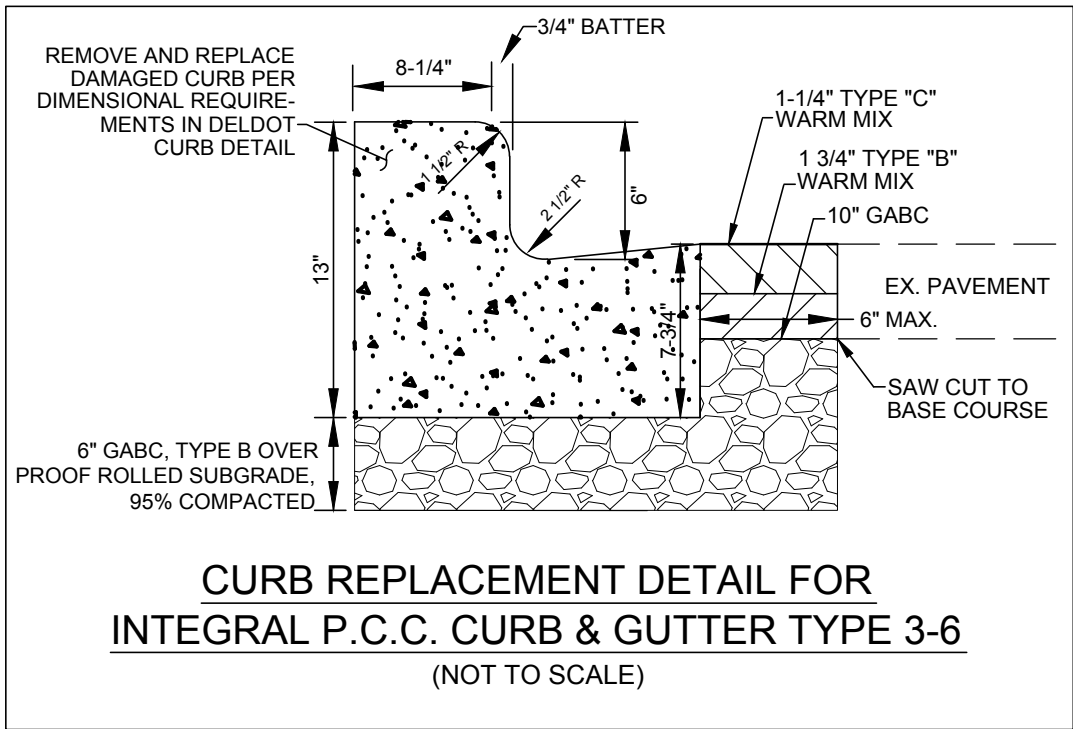
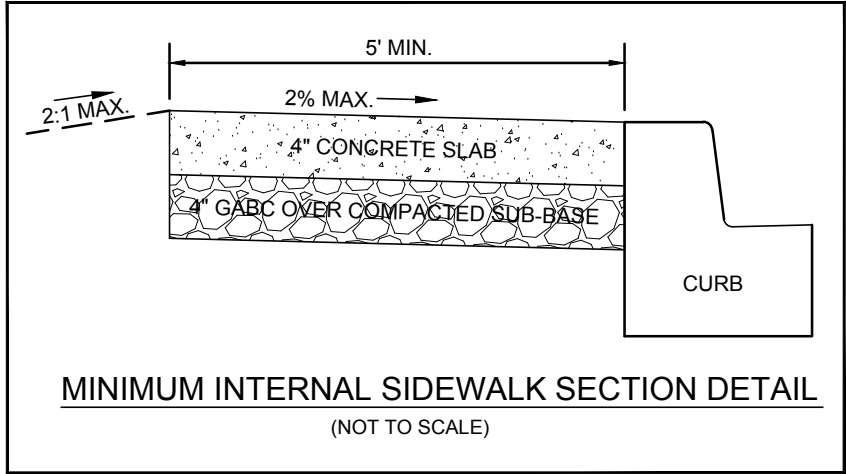
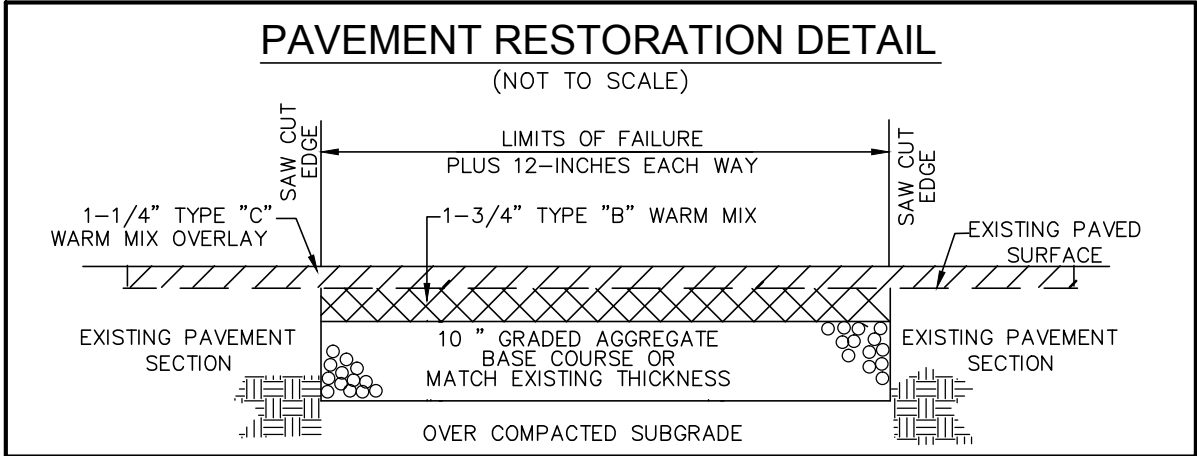
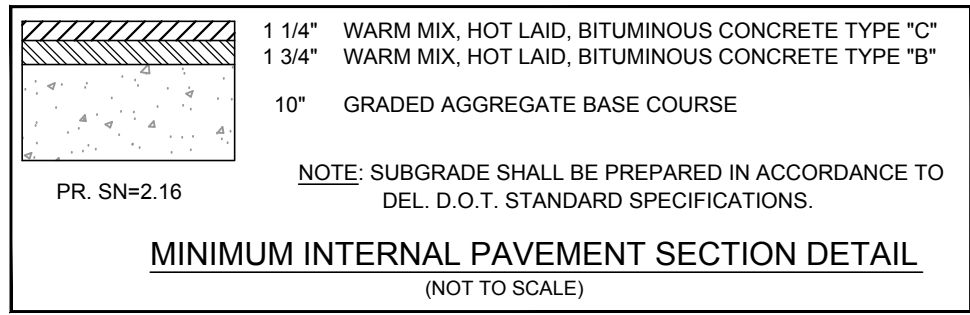
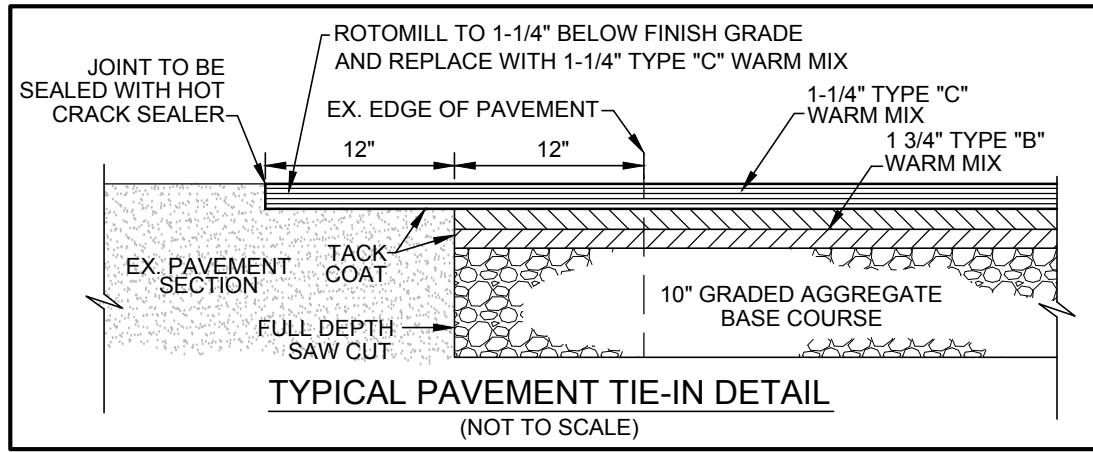
REPAIR DETAIL NO. 3
SCALE: 1"=10'



REPAIR DETAIL NO. 4
SCALE: 1"=10'



REPAIR DETAIL NO. 5
SCALE: 1"=10'



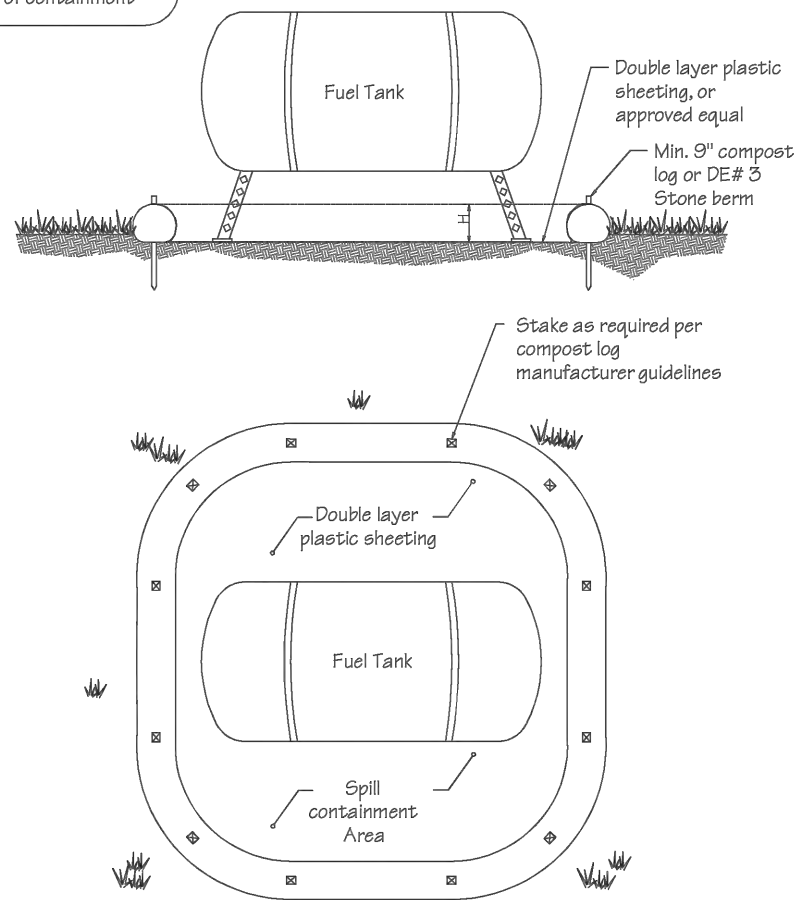
RESTORATION NOTES & DETAILS

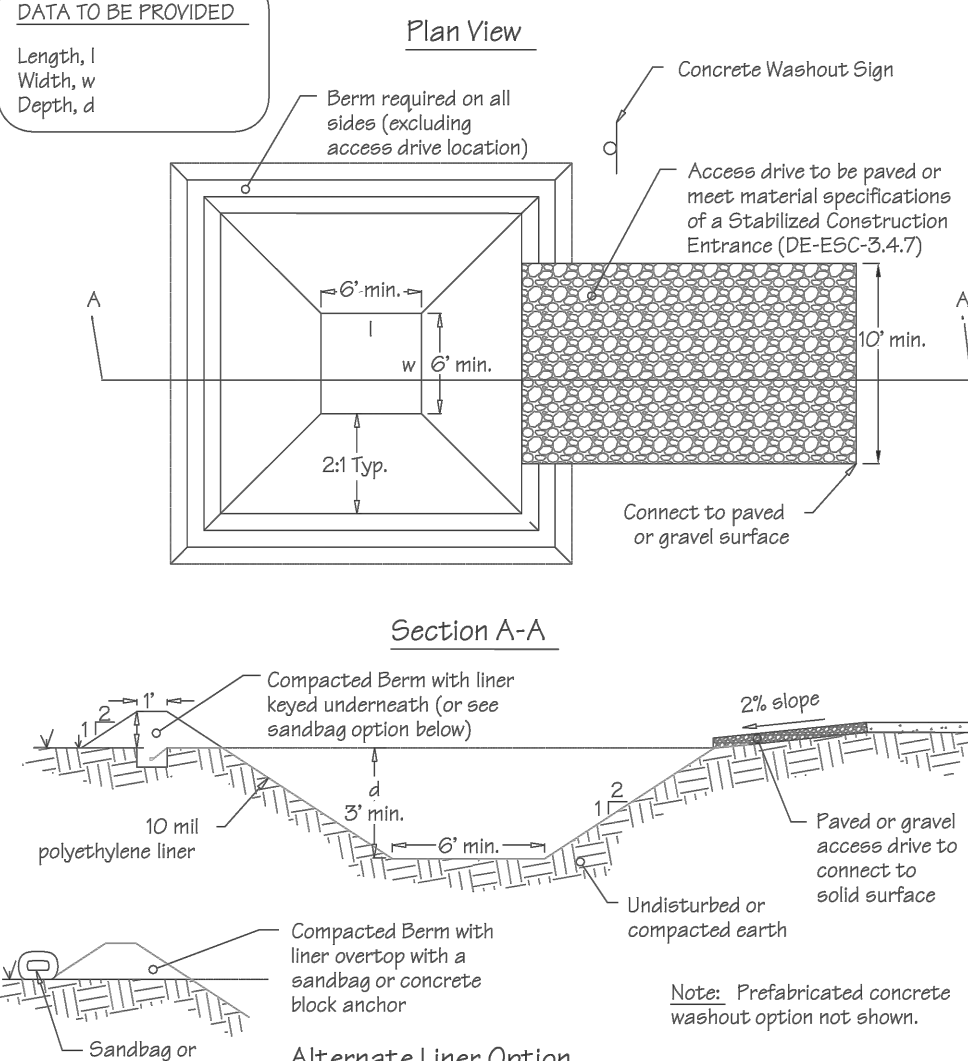
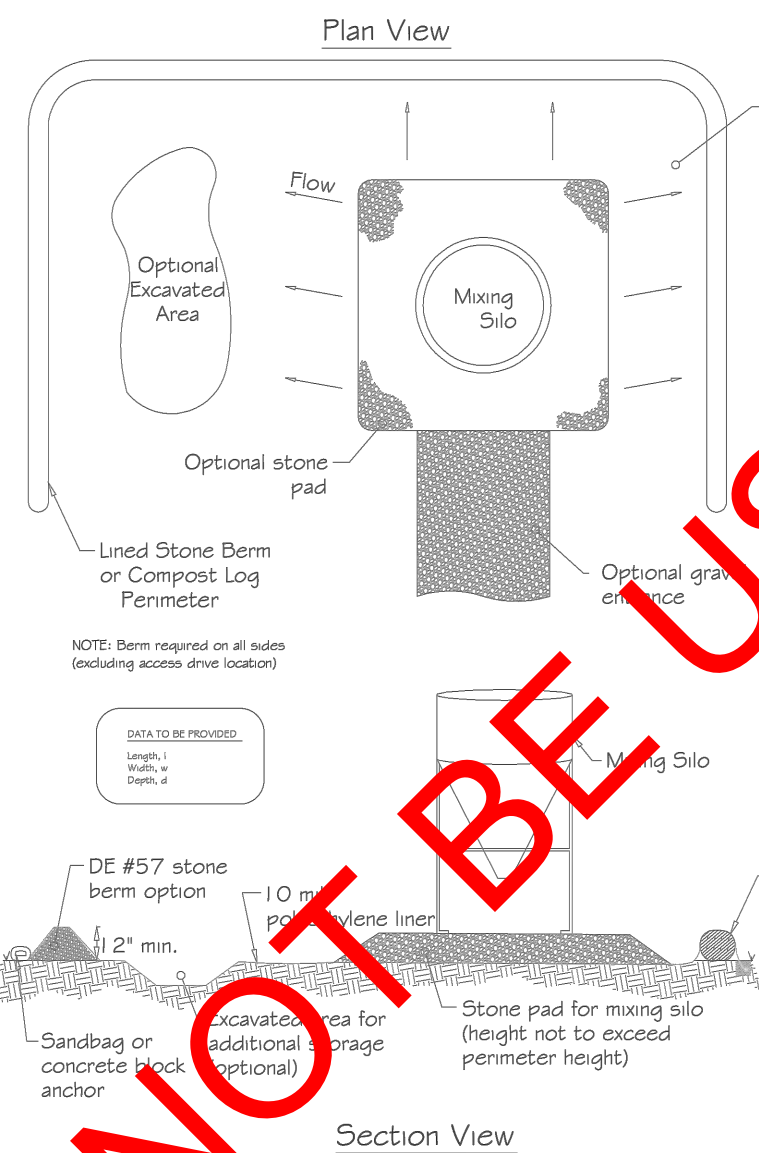
PREPARED FOR
DELAWARE STATE HOUSING AUTHORITY
FOR PROPERTY KNOWN AS
LAVERTY LANE APARTMENTS
SITUATE IN
TOWN OF BRIDGEVILLE
SUSSEX COUNTY - STATE OF DELAWARE
SCALE: AS SHOWN
DATE: 1 APRIL 2016

MERESTONE
CONSULTANTS, INC.
ENGINEERS - PLANNERS - SURVEYORS

5215 WEST WOODMILL DRIVE 33516 CROSSING AVENUE, UNIT 1
WILMINGTON, DE 19808 FIVE POINTS SQUARE
PH: 302-992-7900 LEWES, DE 19958
FAX: 302-992-7911 PH: 302-226-5880

DRAWN BY: HMF DATE: 01 APRIL 2016 SHEET#: 3 OF 5

<div>Standard Detail & Specifications</div> <div>Construction Site Waste Mgt & Spill Control</div> <div><div>DATA TO BE PROVIDED</div><div>Volume of Potential Pollution Height of containment Area of containment Volume of containment</div><div></div></div> <div>Source: Delaware ESC Handbook</div> <div>Symbol: <div></div></div> <div>Detail No. DE-ESC-3.6.1 Sheet 1 of 5 Date: 03/13</div>			<div>Standard Detail & Specifications</div> <div>Construction Site Waste Mgt & Spill Control</div> <div><div>Pollution Prevention – Spill Prevention</div><div><ol style="list-style-type: none">Fueling should only take place in signed designated areas, away from downstream drainage facilities and watercourses.Fueling must be with nozzles equipped with automatic shut-off to control drips. Do not top off.Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked from storm water run-on and runoff.Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.Place a "Fueling Area" sign next to each fueling area.Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks immediately.Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel trucks.If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.Properly dispose of used oil, fluids, lubricants and spill clean-up materials.</div><div>CLEAN UP SPILLS</div><div><ol style="list-style-type: none">If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material spills.Properly dispose of used oil, fluids, lubricants and spill clean-up materials.Do not bury spills or wash them down with water.</div><div>LEAKS AND DRIPS</div><div><ol style="list-style-type: none">Use drip pans or absorbent pads at all times. Place under and around leaky equipment.Do not allow oil, grease, fuel or chemicals to drip onto the ground.Have spill kits and clean up material on-site.Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.Clean up all spills and leaks. Promptly dispose of waste and spent clean up materials.</div></div> <div>Source: Delaware ESC Handbook</div> <div>Symbol: <div></div></div> <div>Detail No. DE-ESC-3.6.1 Sheet 2 of 5 Date: 03/13</div>			<div>Standard Detail & Specifications</div> <div>Construction Site Waste Mgt & Spill Control</div> <div><div>Notes:</div><div>The Construction Site Pollution Prevention Plan should include the following elements:</div><div><div>1. Material Inventory</div><div>Document the storage and use of the following materials:</div><div><div>a. Concrete</div><div>b. Detergents</div><div>c. Paints (enamel and latex)</div><div>d. Cleaning solvents</div><div>e. Pesticides</div><div>f. Wood scraps</div><div>g. Fertilizers</div><div>h. Petroleum based products</div></div><div>2. Good housekeeping practices</div><div><div>a. Store only enough product required to do the job.</div><div>b. All materials shall be stored in a neat, orderly manner in their original labeled containers and covered.</div><div>c. Substances shall not be mixed.</div><div>d. When possible, all of a product shall be used up prior to disposal of the container.</div><div>e. Manufacturers' instructions for disposal shall be strictly adhered to.</div><div>f. The site foreman shall designate someone to inspect all BMPs daily.</div></div><div>3. Waste management practices</div><div><div>a. All waste materials shall be collected and stored in securely lidded dumpsters in a location that does not drain to a waterbody.</div><div>b. Waste materials shall be salvaged and/or recycled whenever possible.</div><div>c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.</div></div></div></div> <div>Source: Adapted from USEPA Pub. 840-B-92-002</div> <div>Symbol: <div></div></div> <div>Detail No. DE-ESC-3.6.1 Sheet 3 of 5 Date: 03/13</div>			<div>Standard Detail & Specifications</div> <div>Construction Site Waste Mgt & Spill Control</div> <div><div>Notes (cont.)</div><div><div>d. Trash shall be disposed of in accordance with all applicable Delaware laws.</div><div>e. Trash cans shall be placed at all lunch spots and littering is strictly prohibited. Recycle bins shall be placed near the construction trailer.</div><div>f. If fertilizer bags can not be stored in a weather-proof location, they shall be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.</div></div><div>4. Equipment maintenance practices</div><div><div>a. If possible, equipment should be taken to off-site commercial facilities for washing and maintenance.</div><div>b. If performed on-site, vehicles shall be washed with high-pressure water spray without detergents in an area contained by an impervious berm.</div><div>c. Drip pans shall be used for all equipment maintenance.</div><div>d. Equipment shall be inspected for leaks on a daily basis.</div><div>e. Washout from concrete trucks shall be disposed of in a temporary pit for hardening and proper disposal.</div><div>f. Fuel nozzles shall be equipped with automatic shut-off valves.</div><div>g. All used products such as oil, antifreeze, solvents and tires shall be disposed of in accordance with manufacturers' recommendations and local, state and federal laws and regulations.</div></div><div>5. Spill prevention practices</div><div><div>a. Potential spill areas shall be identified and contained in covered areas with connection to the storm drain system.</div><div>b. Warning signs shall be posted in hazardous material storage areas.</div><div>c. Preventive maintenance shall be performed on all tanks, valves, pumps, pipes and other equipment as necessary.</div><div>d. Low or non-toxic substances shall be prioritized for use.</div></div></div> <div>Source: Adapted from USEPA Pub. 840-B-92-002</div> <div>Symbol: <div></div></div> <div>Detail No. DE-ESC-3.6.1 Sheet 4 of 5 Date: 03/13</div>			<div>Standard Detail & Specifications</div> <div>Construction Site Waste Mgt & Spill Control</div> <div><div>Notes (cont.)</div><div><div>e. Contact information for reporting spills through the DNREC 24-Hour Toll Free Number shall be prominently posted.</div></div><div>6. Education</div><div><div>a. Best management practices for construction site pollution control shall be a part of regular progress meetings.</div><div>b. Information regarding waste management, equipment maintenance and spill prevention shall be prominently posted in the construction trailer.</div></div></div> <div>Source: Adapted from USEPA Pub. 840-B-92-002</div> <div>Symbol: <div></div></div> <div>Detail No. DE-ESC-3.6.1 Sheet 5 of 5 Date: 03/13</div>		
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<div>Standard Detail & Specifications</div> <div>Concrete Washout</div> <div><div>DATA TO BE PROVIDED</div><div>Length, l Width, w Depth, d</div><div></div></div> <div>Source: Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3</div> <div>Symbol: <div>CW</div></div> <div>Detail No. DE-ESC-3.6.2 Sheet 1 of 2 Date: 03/13</div>			<div>Standard Detail & Specifications</div> <div>Concrete Washout</div> <div><div>Construction Notes:</div><div><ol style="list-style-type: none">Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.Locate washout area so that it is accessible to concrete equipment (serve with a minimum 10 foot wide gravel accessway), but so it is not in a highly active construction area causing accidental damage.Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot high by 1 foot wide compacted fill berm.The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overlap with sandbags or concrete blocks to hold in place.Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.Apply a new liner before reusing the station for additional washouts after maintenance has occurred.</div></div> <div>Source: Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3</div> <div>Symbol: <div>CW</div></div> <div>Detail No. DE-ESC-3.6.2 Sheet 2 of 2 Date: 03/13</div>			<div>Standard Detail & Specifications</div> <div>Concrete Mixing Operation</div> <div><div>Plan View</div><div></div><div>Section View</div></div> <div>Source: Adapted from MN/DOT Concrete Manual, Chap. 4</div> <div>Symbol: <div>CMO</div></div> <div>Detail No. DE-ESC-3.6.3 Sheet 1 of 2 Date: 03/13</div>			<div>Standard Detail & Specifications</div> <div>Concrete Mixing Operation</div> <div><div>Construction Notes:</div><div><ol style="list-style-type: none">Locate concrete mixing and containment area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.Locate concrete mixing and containment area so that it is accessible to telescopic lifts (serve with a minimum 10 foot wide gravel or paved accessway), but so it is not in a highly active construction area causing accidental damage.Minimum volume for installed containment areas are 3.5 cubic feet per cubic foot of mixing capacity. The installed containment area must encompass the storage silo and mixing unit, and be surround on three sides minimum by a 12" high stone berm (DE #57) or 18" compost logThe 10-mil poly liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. The liner shall cover the perimeter control and be secured on the backside using cement or sand bags, or keyed into the ground a minimum of 6".Allow cementitious waste to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.Apply a new liner before reusing the station for additional mixing after maintenance has occurred.</div></div> <div>Source: Adapted from MN/DOT Concrete Manual, Chap. 4</div> <div>Symbol: <div>CMO</div></div> <div>Detail No. DE-ESC-3.6.3 Sheet 2 of 2 Date: 03/13</div>		
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EROSION & SEDIMENT CONSTRUCTION
DETAILS PLAN

PREPARED FOR
DELAWARE STATE HOUSING AUTHORITY
FOR PROPERTY KNOWN AS
LAVERTY LANE APARTMENTS
SITUATE IN
TOWN OF BRIDGEVILLE
SUSSEX COUNTY - STATE OF DELAWARE
SCALE: NO SCALE
DATE: 1 APRIL 2016



M E R E S T O N E
CONSULTANTS, INC.
ENGINEERS - PLANNERS - SURVEYORS

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DRAWN BY: HMF DATE: 01 APRIL 2016 SHEET#: 5 OF 5

APPROVED: ROGER A. GROSS, P.E.

DATE: