

Family Recreational Area at Northview Heights, AMP-09

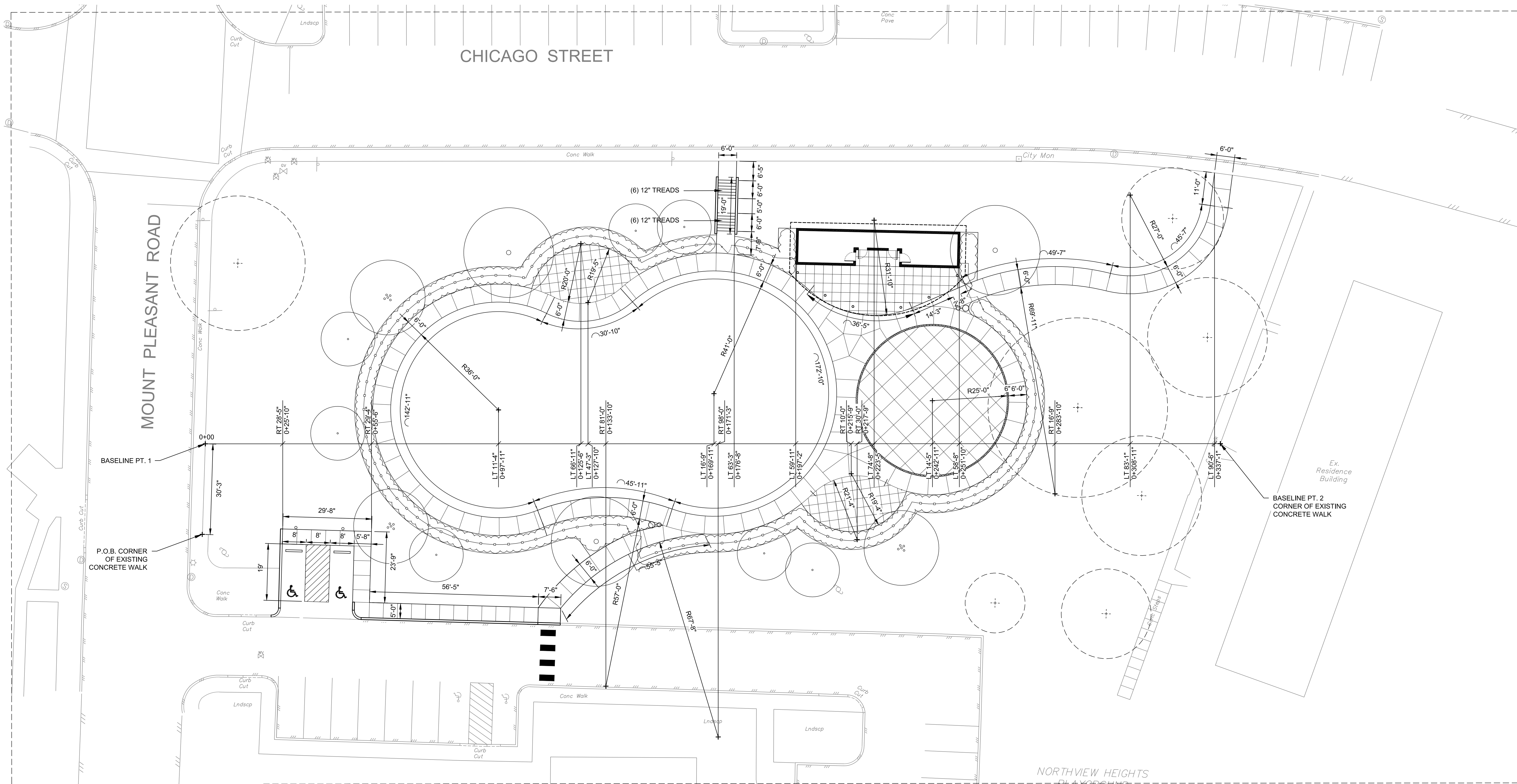
IFB#600-11-26 REBID

ADDENDUM

ATTACHMENT E

UPDATED CONSTRUCTION DRAWINGS SET

PART 3 OF 4



1 LAYOUT & DIMENSION PLAN

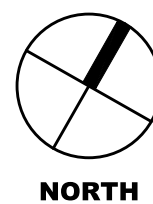
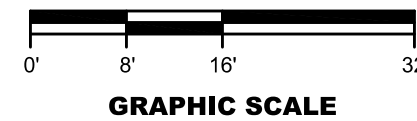
SCALE: 1/16" = 1'-0"

NOTES

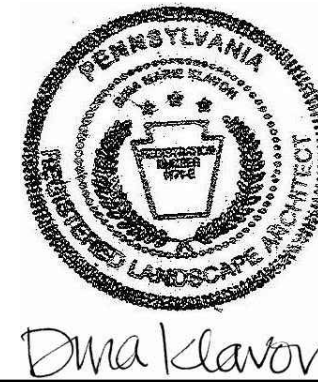
1. SURVEY PREPARED BY HAMPTON TECHNICAL ASSOCIATES, INC., DATED AUGUST 16, 2022.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC., WHICH MAY OCCUR AS A RESULT OF CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO COMPLETE THE WORK.
4. INLETS SHALL BE MAINTAINED SO AS NOT TO ALLOW ANY SEDIMENT OR DEBRIS TO PREVENT THE FLOW OF WATER INTO THE INLETS. ANY OBSTRUCTIONS TO THE PIPE SHOULD BE REMOVED.
5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO STARTING ANY WORK
6. AT ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS, CONCRETE ROADWAY OR CONCRETE SIDEWALK ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENTS SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
7. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW.
8. GENERAL CONTRACTOR TO FINE GRADE ALL DISTURBED BEDS & PLANTING AREAS IN PREPARATION FOR LANDSCAPE CONTRACTOR.
9. REFER TO CIVIL ENGINEERING DRAWINGS FOR COORDINATION ITEMS AND CIVIL DETAILS.
10. REFER TO SPECIFICATIONS FOR SITE MATERIAL SELECTIONS.

LEGEND

- | | | | |
|--|--------------------------------------|--|-------------------------|
| | PROPOSED CONCRETE PAVING | | EXISTING TREE TO REMAIN |
| | PROPOSED PLAYGROUND SAFETY SURFACING | | |
| | PROPOSED CONCRETE CURB | | |



Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than 10 business days prior to the start of excavation.
Coordinate your projects via Coordinate PA at www.paconecall.org
Pennsylvania One Call System Serial Number



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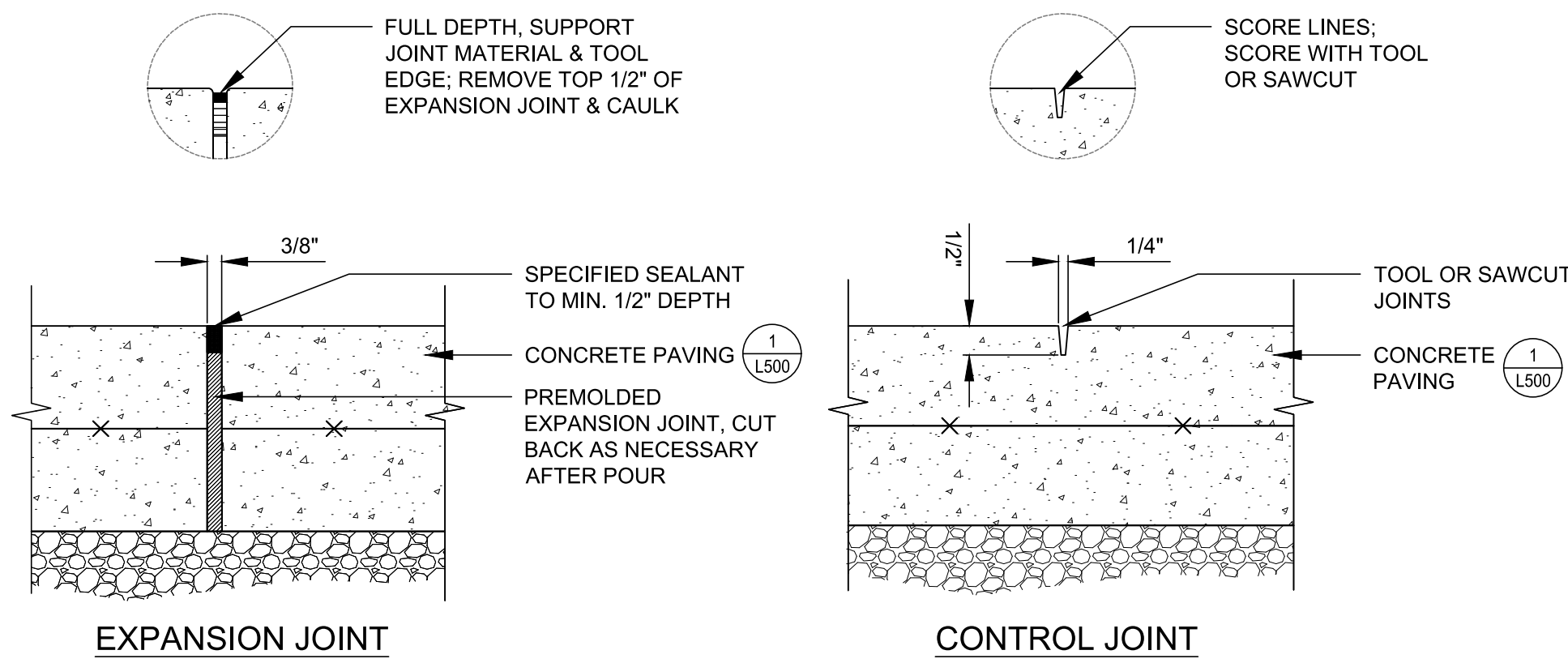
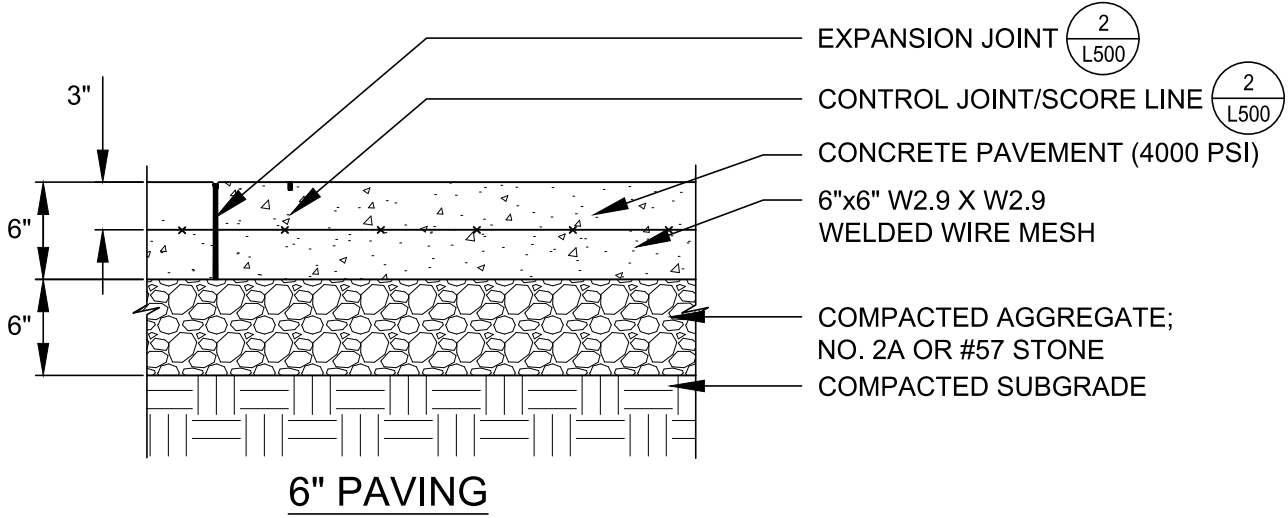
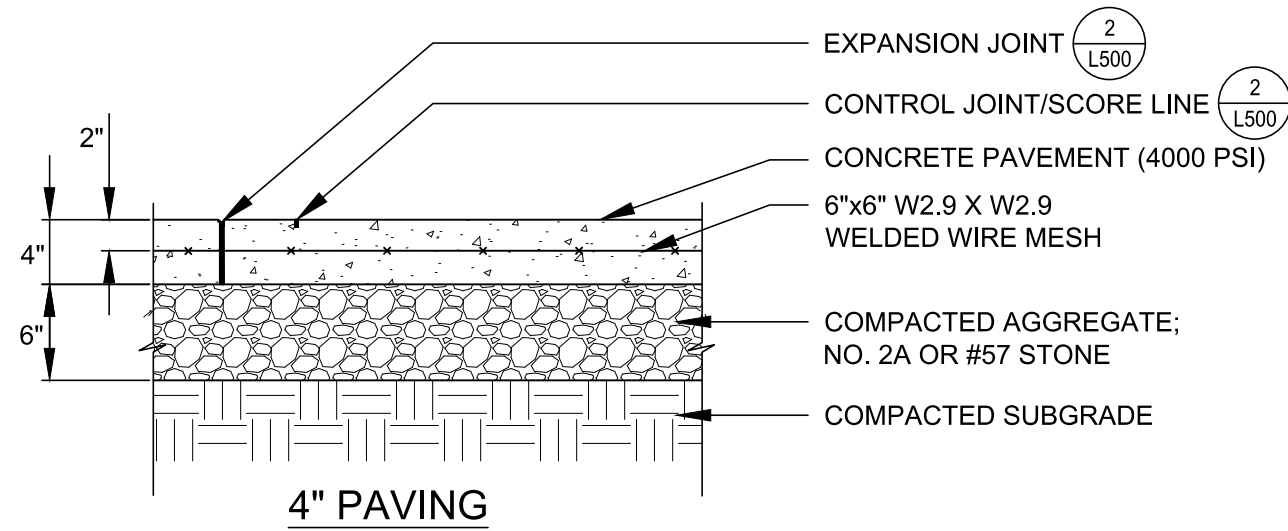
REVISIONS			
DRAWN BY	CHECKED BY	DATE ISSUED	DATE PRINTED
ARG	DKH	07/31/26	07/31/26

Layout & Dimension Plan

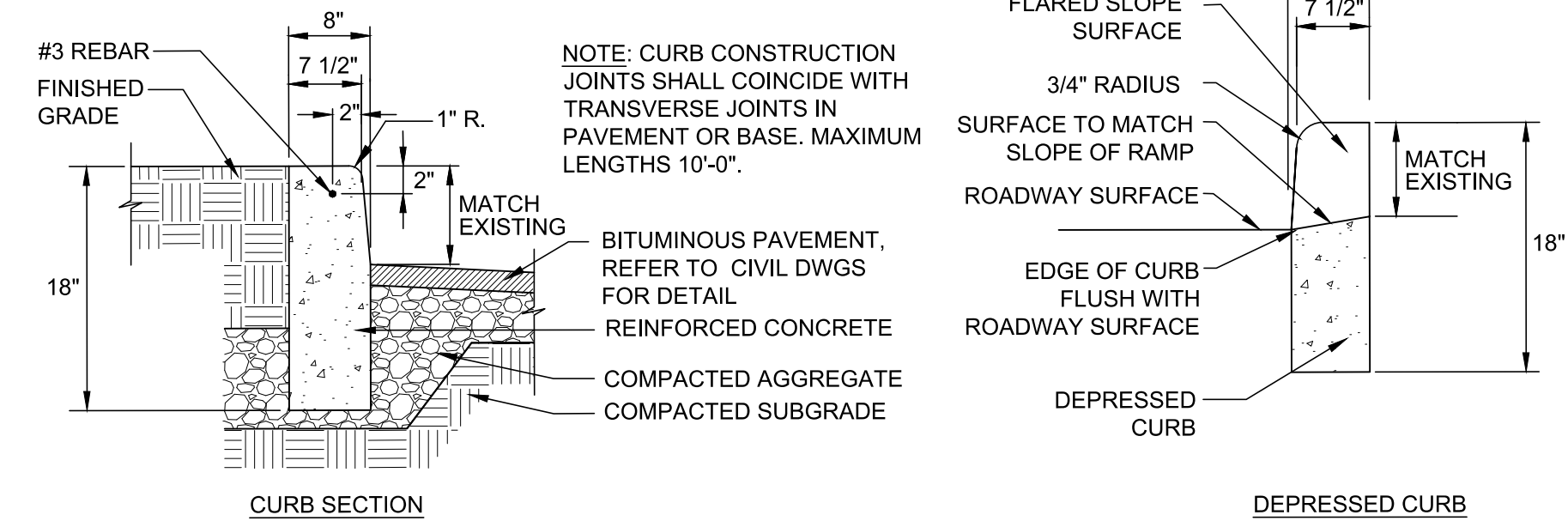
Northview Heights Playground
Mt. Pleasant Road
Pittsburgh, PA 15214

SHEET NUMBER:

L104



- NOTES:
- REFER TO LAYOUT PLAN FOR EXPANSION JOINTS INTERVALS.
 - DOWEL IS TYPICAL AT ALL EXPANSION JOINTS EXCEPT AGAINST VERTICAL JOINTS.



1 CONCRETE PAVING

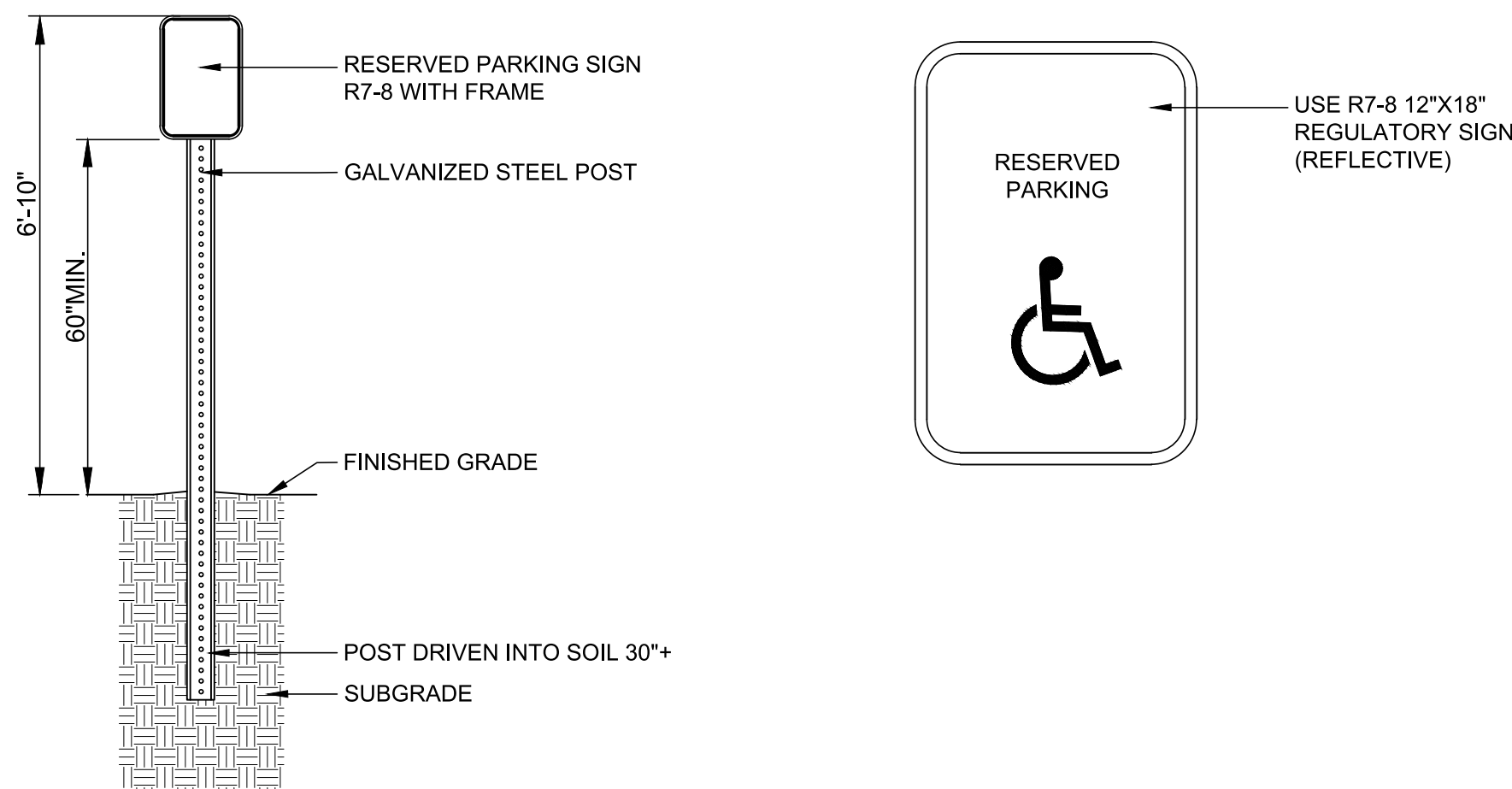
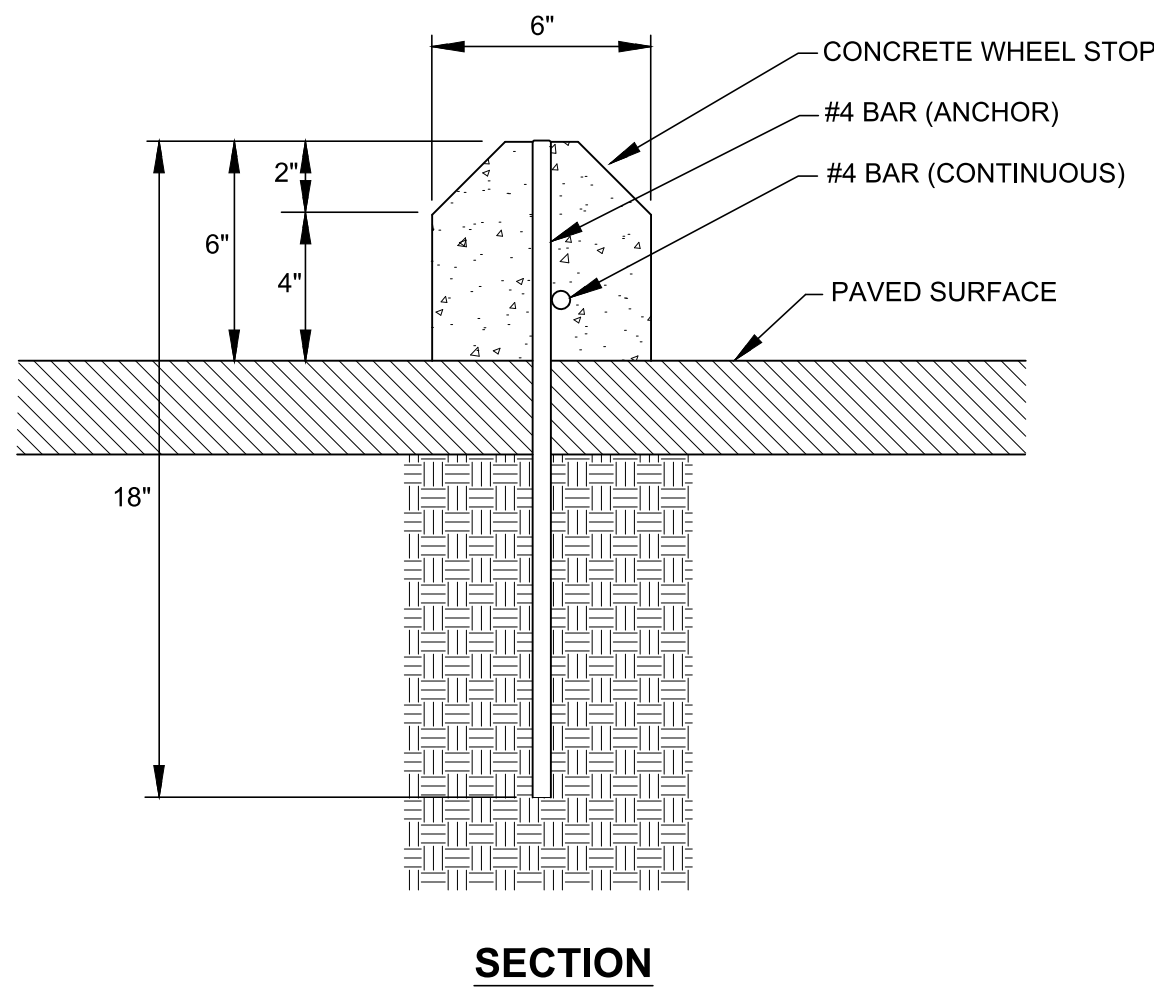
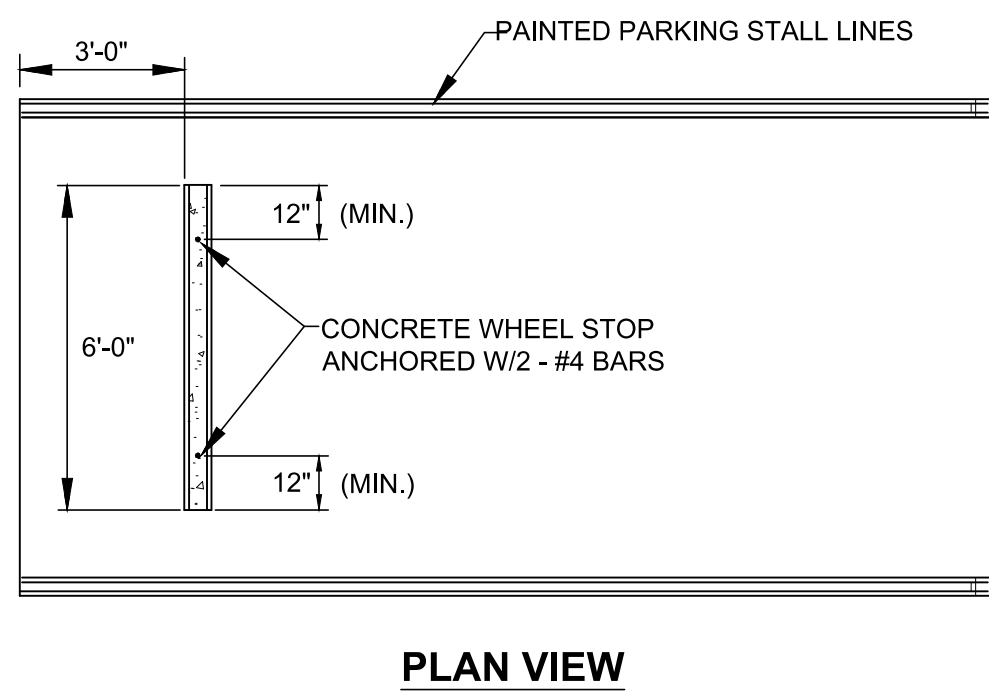
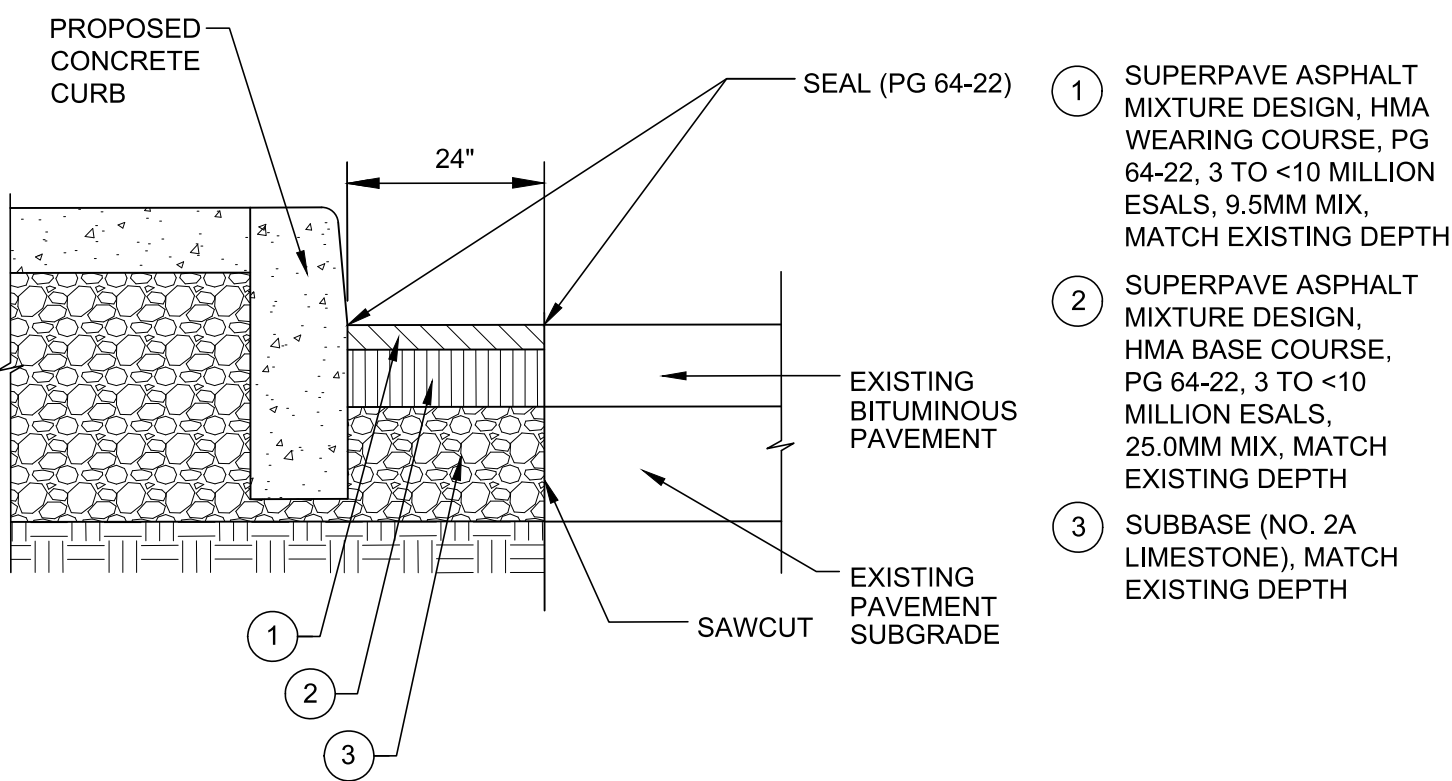
SCALE: 1" = 1'-0"

2 CONCRETE JOINTS

SCALE: N.T.S.

3 CONCRETE CURB

SCALE: 1" = 1'-0"



4 PAVEMENT RESTORATION

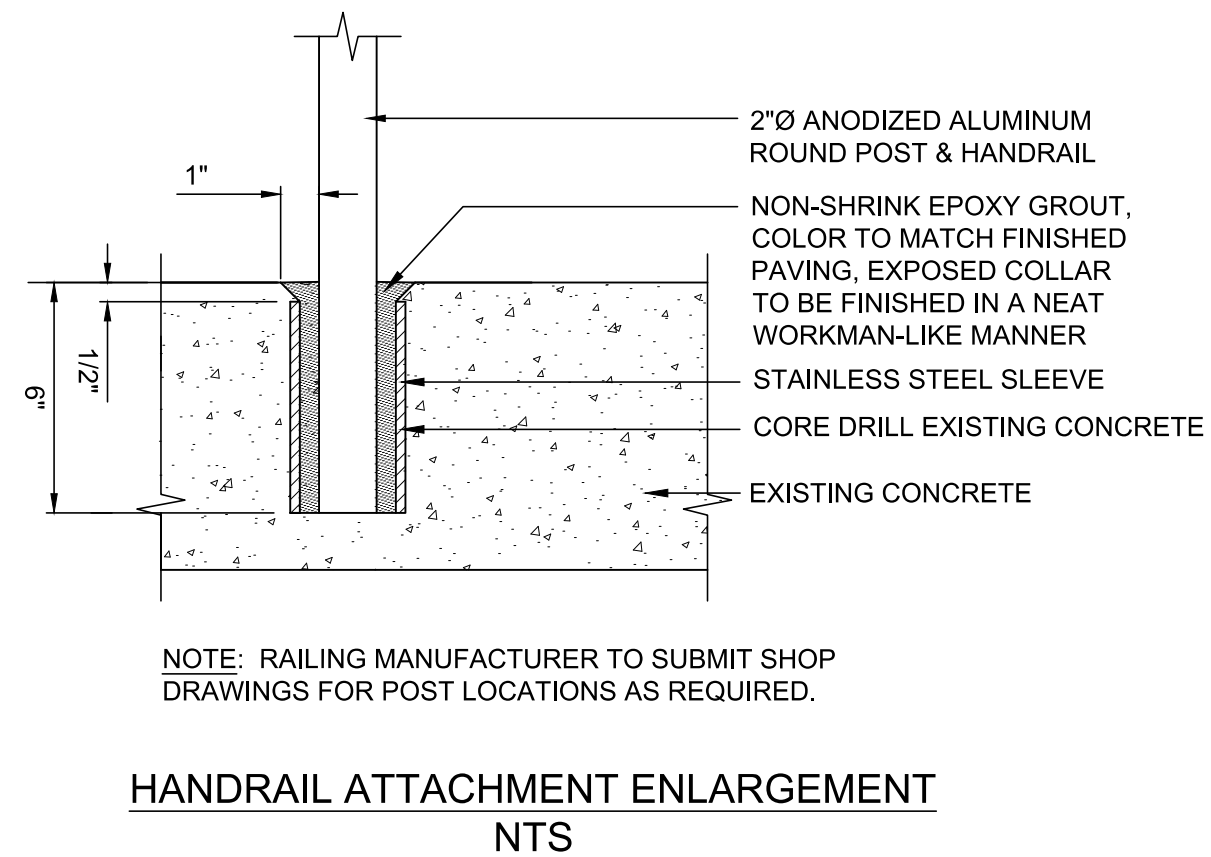
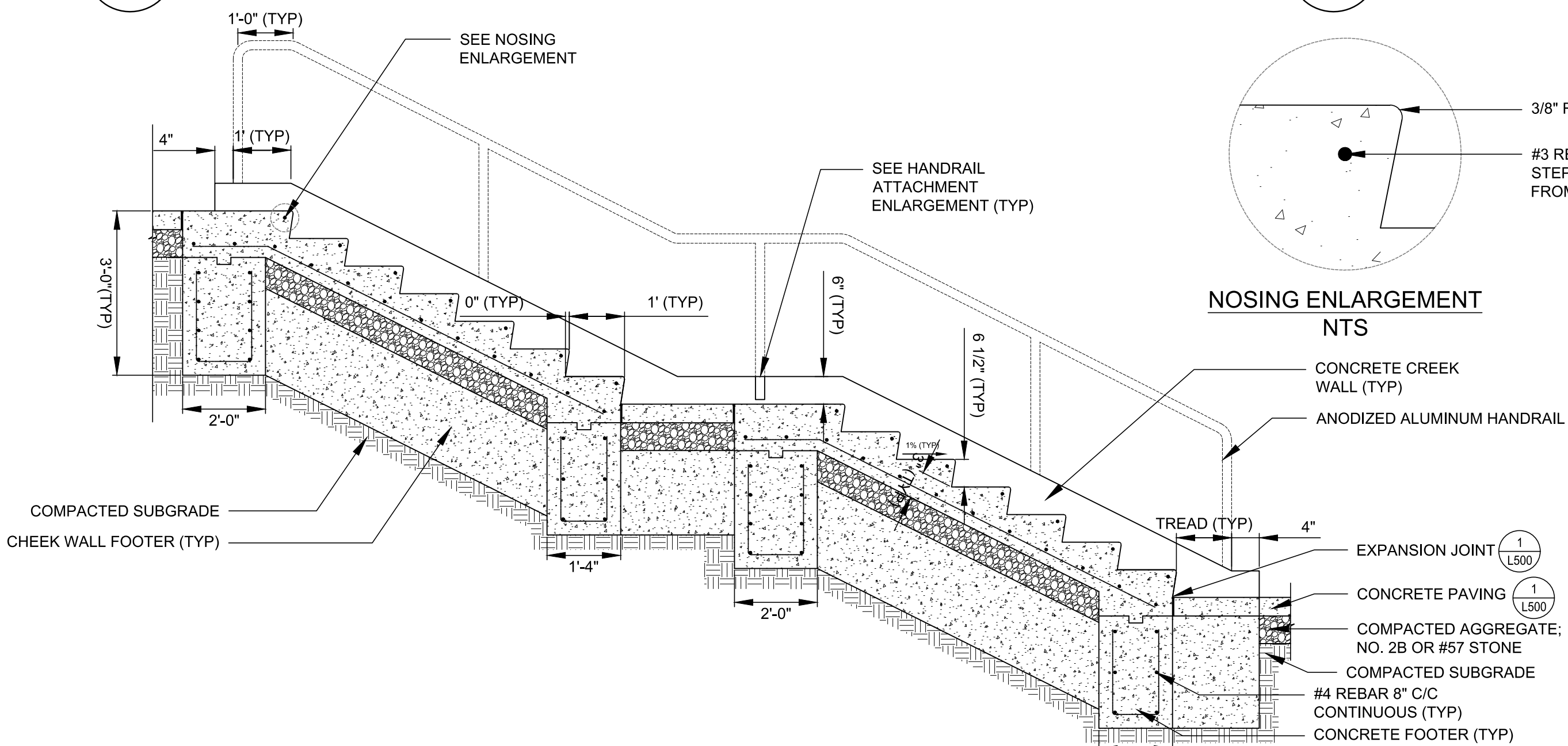
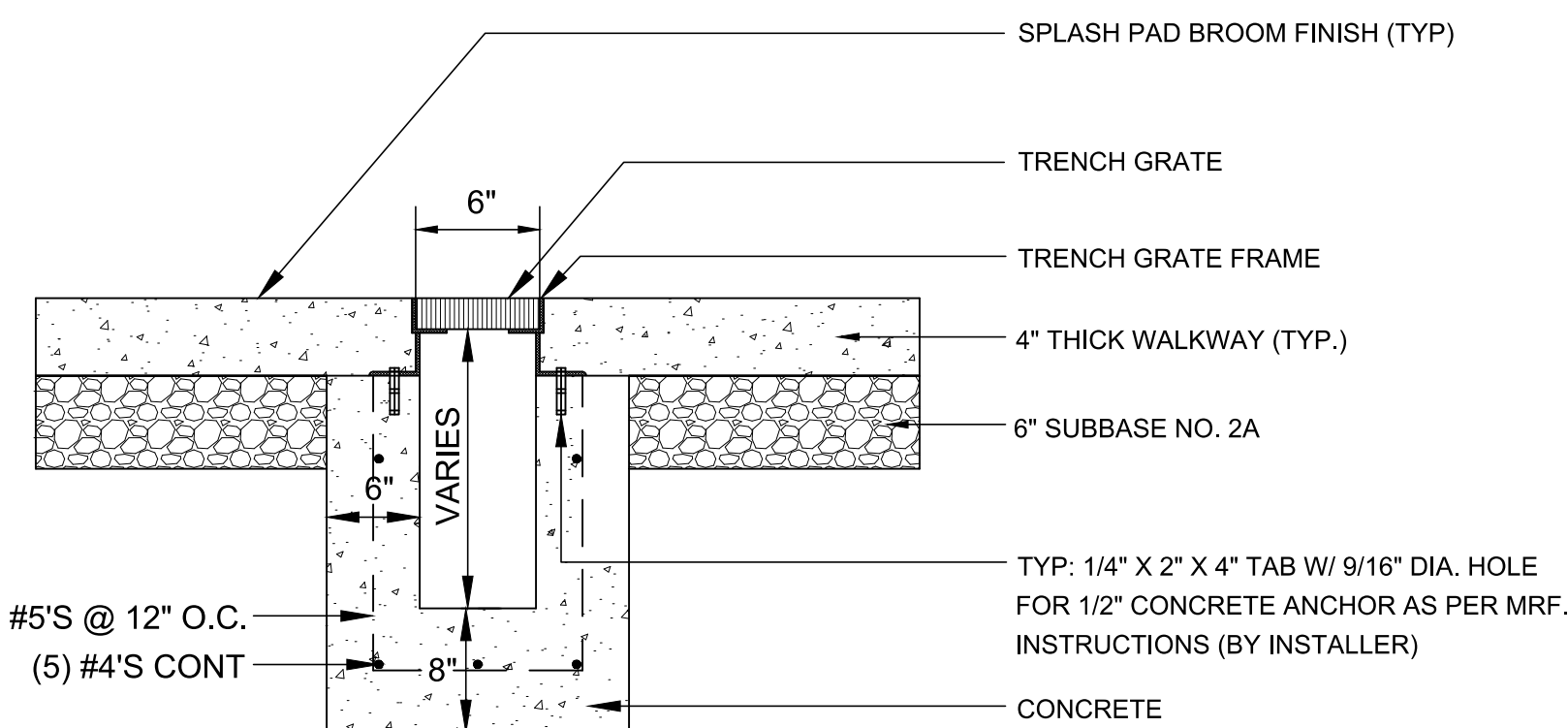
SCALE: 1" = 1'-0"

5 CONCRETE WHEEL STOP

SCALE: N.T.S.

6 RESERVED PARKING SIGN

SCALE: N.T.S.



7 TRENCH DRAIN

SCALE: N.T.S.

8 CONCRETE STAIRS WITH KNEE WALL

SCALE: 1" = 1'-0"



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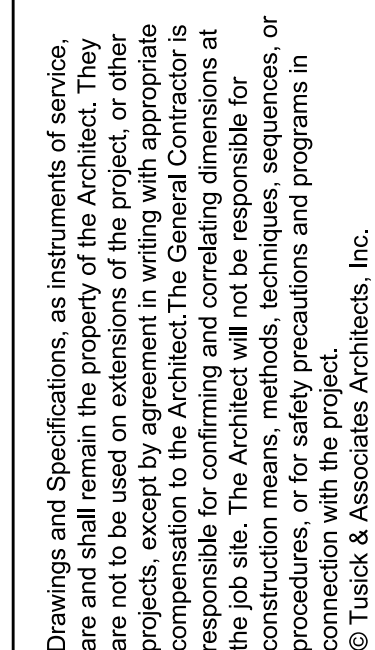
REVISIONS			
DRAWN BY	ARG	CHECKED BY	DKH
DATE ISSUED	07/31/26	DATE PRINTED	07/31/26

Site Details

Northview Heights Playground
Mt. Pleasant Road
Pittsburgh, PA 15214

SHEET NUMBER:

L501



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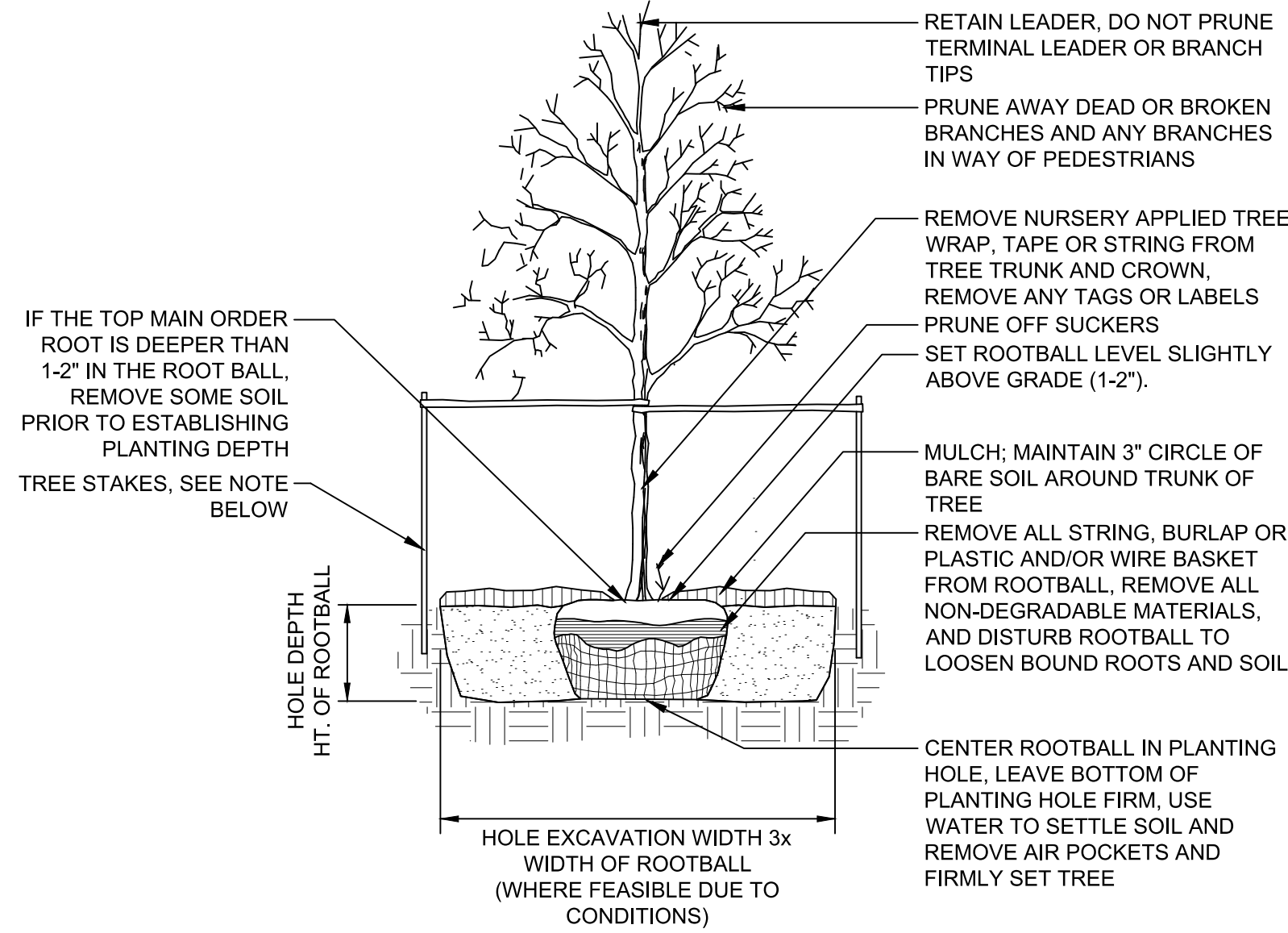
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Site Details

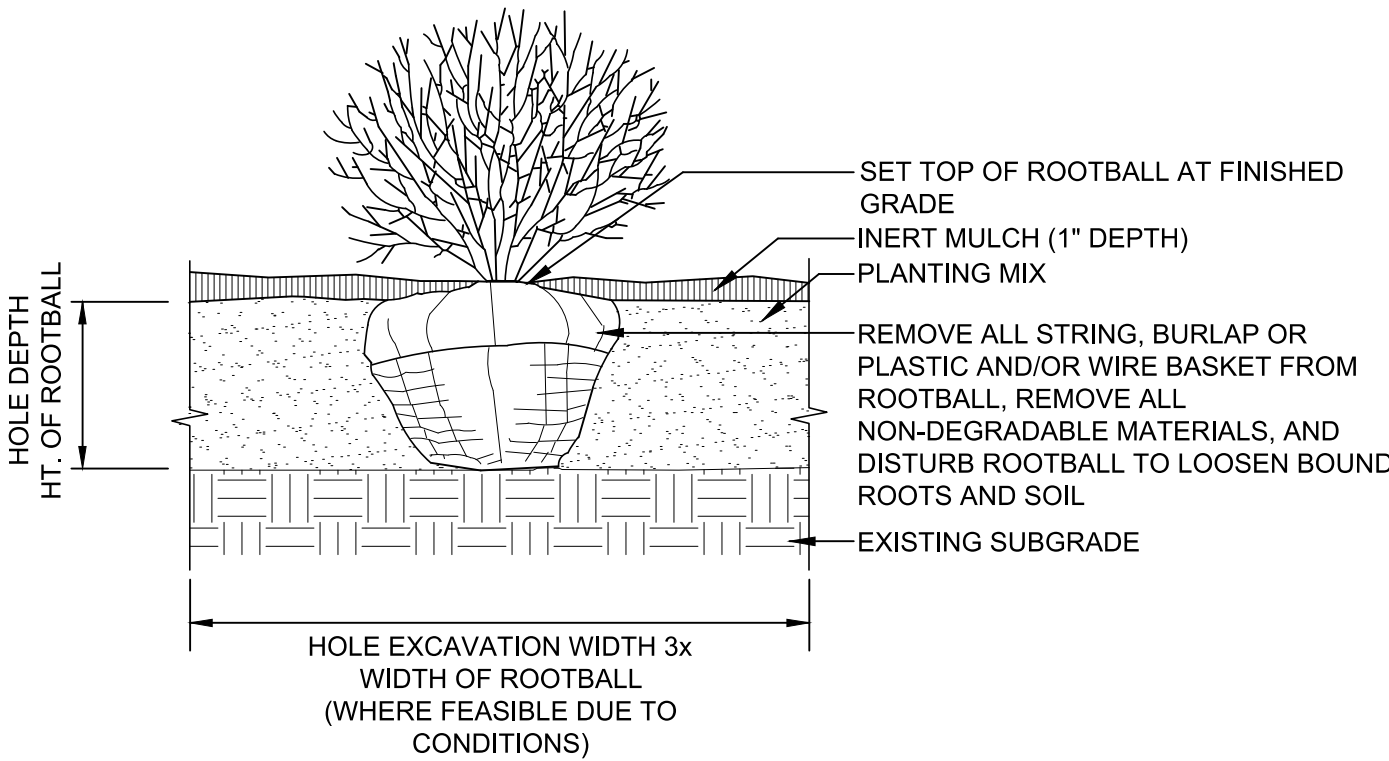
Northview Heights Playground
Mt. Pleasant Road
Pittsburgh, PA 15214

SHEET NUMBER:

L502



NOTE: STAKE WITH TWO 8' LONG WOOD 'TEE' POSTS OR APPROVED EQUAL DRIVEN 6-8" OUTSIDE OF ROOTBALL. LOOSELY STAKE THE TREE TRUNK TO ALLOW FOR TRUNK FLEXING. STAKE TREES JUST BELOW FIRST BRANCH WITH 1-3" POLYPROPYLENE STRAPS (2 PER TREE ON OPPOSITE SIDES, CONNECT FROM TREE TO STAKE HORIZONTALLY). DO NOT USE ROPE OR WIRE THROUGH A HOSE. ARBOR TIE IS AN ACCEPTABLE PRODUCT. REMOVE ALL STAKING MATERIALS AFTER ONE YEAR, OR AS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.



1

L503

TREE PLANTING DETAIL

SCALE: 1" = 1'-0"

2

L503

SHRUB PLANTING DETAIL

SCALE: 1" = 1'-0"



Dina Klavon

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Landscape Details

Northview Heights Playground
Mt. Pleasant Road
Pittsburgh, PA 15214

SHEET NUMBER:

L503

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVEGROUND OBSERVATIONS AT THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. ALL CONTRACTORS AND OTHER PERSONS UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF PENNSYLVANIA ACT 172, ENTITLED "EXCAVATION AND DEMOLITION WORK PROTECTION OF UNDERGROUND UTILITIES". EACH INDIVIDUAL USING THIS PLAN MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE STARTING WORK. CONTRACTOR SHALL NOTIFY "PA ONE-CALL" (1-800-242-1776) AT LEAST 48 HOURS PRIOR TO START OF EXCAVATION.
3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL AS SPECIFIED ON THE SITE DEVELOPMENT PLANS AND DETAILS.
4. ALL PAVED AND CONCRETE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION, UNLESS DIRECTED BY THE CONSTRUCTION DETAILS OR THE ENGINEER.
5. ALL GRASSED AREAS DISTURBED OR AREAS TO BE BACKFILLED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEEDED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT THEIR OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
7. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP REQUIRED TO EXECUTE THIS PROJECT SHALL BE IN CONFORMANCE WITH THE STANDARDS AND SPECIFICATIONS ESTABLISHED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PENNDOT).
8. ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH PENNDOT STANDARDS, INCLUDING, BUT NOT LIMITED TO:

PUBLICATION 408 - CONSTRUCTION SPECIFICATIONS

PUBLICATION 72 - STANDARDS FOR ROADWAY CONSTRUCTION
9. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION LAYOUT OF THE PROJECT. PAYMENT WILL NOT BE MADE FOR CONSTRUCTION LAYOUT, BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
10. EXCAVATION AND ALL MATERIALS FOR PIPE BEDDING, SUITABLE BACKFILL MATERIAL (NO. 2A STONE AGGREGATE) AND TRENCH RESTORATION INVOLVED IN ALL DRAINAGE PIPE AND STRUCTURE INSTALLATION SHALL BE INCLUDED UNDER THE APPROPRIATE LINE ITEM. ALL QUESTIONABLE MATERIAL MUST BE REMOVED OFFSITE AND SELECT FILL WILL BE USED FOR THE TRENCH RESTORATION, AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH THE SPECIFICATIONS.
11. EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE INSTALLED AS PER THE PLANS AND DETAILS, AND WHERE DIRECTED BY THE ENGINEER.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL EXCESS EARTHWORK AND CONSTRUCTION MATERIALS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

EXISTING LEGEND:

	OVERHEAD ELECTRIC LINE
	UNDERGROUND ELECTRIC
	UP
	GUIDE WIRE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	LIGHT POLE
	GAS LINE
	GAS VALVE
	GAS MARKER
	GAS METER
	WATER LINE
	WATER VALVE
	HYDRANT
	SANITARY SEWER
	COMBINATION SEWER
	SANITARY MANHOLE
	CLEANOUT
	MANHOLE
	STORM SEWER
	STORM MANHOLE
	CATCH BASIN
	END WALL
	COMMUNICATION MANHOLE
	COMMUNICATION BOX
	COMMUNICATION VAULT
	CURB
	SURVEY MARKERS
	EDGE OF PAVEMENT (NO CURB)
	MAJOR CONTOUR
	MINOR CONTOUR

PROPOSED LEGEND:

	MAJOR CONTOUR
	MINOR CONTOUR
	SPOT ELEVATION
	CONCRETE SIDEWALK W/ JOINTS
	CONCRETE PAVEMENT
	UNDERGROUND ELECTRIC
	GAS LINE
	WATER LINE
	SANITARY SEWER
	STORM SEWER
	MANHOLE
	TRENCH DRAIN

UPDATED
DRAWING
LIST

NEW SHEETS

SYMBOL ADDED

CIVIL DRAWINGS

SHEET NUMBER	DESCRIPTION
C001	GENERAL NOTES AND LEGEND
C101	EXISTING CONDITIONS PLAN
C102	SITE DEMOLITION PLAN
C201	SITE IMPROVEMENTS PLAN
C301	GRADING PLAN
C401	STORMWATER MANAGEMENT, UTILITY, AND DRAINAGE PLAN
C501	CONSTRUCTION DETAILS
C502	STORMWATER MANAGEMENT CONSTRUCTION DETAILS
C503	CONSTRUCTION DETAILS
C504	CONSTRUCTION DETAILS
C505	CONSTRUCTION DETAILS
C506	CONSTRUCTION DETAILS
C507	PARTIAL SITE PLAN AND PROFILES
C508	CONSTRUCTION DETAILS I
C509	CONSTRUCTION DETAILS II
C601	EROSION & SEDIMENT CONTROL PLAN
C602	EROSION & SEDIMENT CONTROL DETAILS
C603	EROSION & SEDIMENT CONTROL DETAILS
C604	EROSION & SEDIMENT CONTROL DETAILS

SURVEY NOTES:

1. ALL DEED OR PLAN BEARINGS AND COORDINATES HAVE BEEN ROTATED AND CONVERTED TO NORTH AMERICAN DATUM OF 1983 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM SOUTH ZONE.
2. TOPOGRAPHIC MAPPING IS A COMPILATION OF FIELD MEASUREMENTS AND GIS TOPOGRAPHIC MAPPING FROM THE PENNSYLVANIA SPATIAL DATA ACCESS WEBSITE. THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONTOUR INTERVAL 1' INSIDE PROJECT AREA, 2' OUTSIDE PROJECT AREA.
3. ALL UTILITY INFORMATION FOR THIS PLAN OF LOTS IS BASED ON AN ABOVE GROUND TOPOGRAPHICAL SURVEY AND INFORMATION PROVIDED BY THE RESPONDING UTILITY COMPANIES, PER SURFACE INSPECTION AND THE RESULTS FROM A PA ONE CALL MADE ON 08/16/2022. SERIAL NUMBER 20222283732. THE LOCATION OF SAID UTILITIES SHOULD BE CONSIDERED APPROXIMATE. NO SUBSURFACE UTILITY SURVEY OR EXPLORATION HAS BEEN MADE.
4. AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, MINIMAL FLOOD HAZARD AREA, PER FEMA FLOOD HAZARD MAP NUMBER 42003C0332H AND 42003C0351H, EFFECTIVE DATE: SEPT. 26, 2014, CITY OF PITTSBURGH, ALLEGHENY COUNTY, PA.



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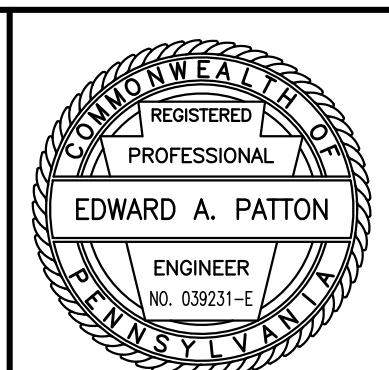
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GENERAL NOTES AND LEGEND	REVISIONS		REVISED FOR ADDITIONAL CLARITY (6/26)	
	DRAWN BY SJD	CHECKED BY BLD	DATE ISSUED 04-10-2023	DATE PRINTED 04-10-2023
HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214				
SHEET NUMBER:				
C001				



EXISTING SITE PLAN

- PLAN NOTES:
1. CONTOUR ELEVATION DATUM NAD83
PENNSYLVANIA STATE PLANES, SOUTH ZONE
US FOOT.
 2. SURVEY AND TOPO TAKEN FROM HAMPTON
TECHNICAL ASSOCIATES.
 3. UNDERGROUND ELECTRIC NOTED THUS:
[— E —].
 4. OVERHEAD ELECTRIC NOTED THUS:
[— // —].
 5. WATERLINE NOTED THUS: [— W —].
 6. GASLINE NOTED THUS: [— G —].
 7. UNKNOWN UTILITY NOTED THUS:
[— X —].
 8. SANITARY NOTED THUS: [— SN —].
 9. STORMWATER NOTED THUS:
[— ST —].
 10. EXISTING CONTOURS NOTED THUS:
[- - - - -].

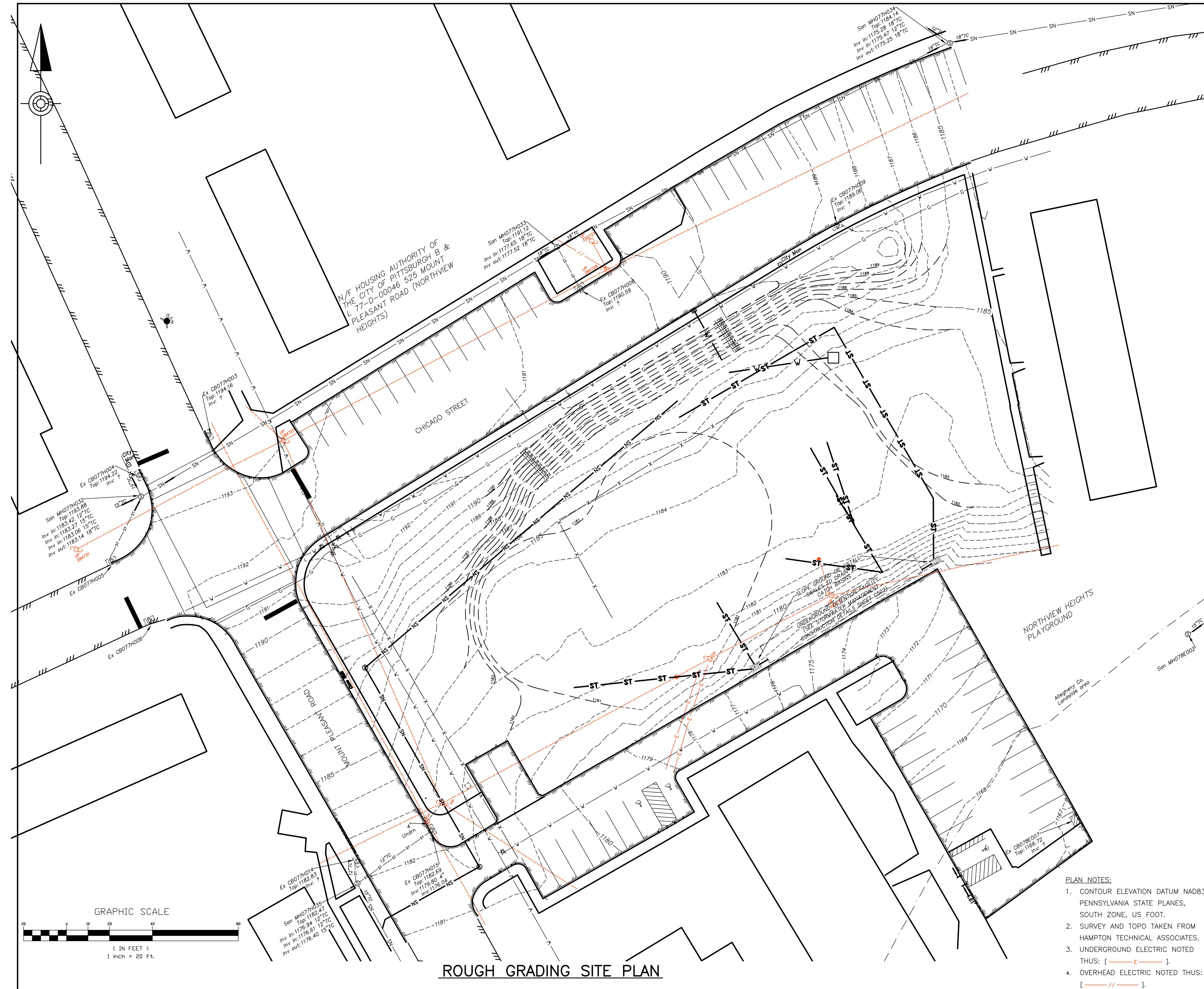


Edward A. Patton

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REVISIONS			
DRAWN BY	CHECKED BY	DATE ISSUED	DATE PRINTED
CLB	EAP	07/24/26	07/24/26
EXISTING SITE PLAN			
HACP NVH - Family Recreational Area 525 Mt Pleasant Road, Pittsburgh, PA 15214			
SHEET NUMBER:			
C300			



C301

GEOTECHNICAL NOTES:

PER PS&R GEOTECHNICAL EXPLORATION REPORT, THE FOLLOWING STEPS ARE RECOMMENDED:

1. CUT SLOPE
- THE PROPOSED 2H:1V CUT SLOPE WILL BE STABLE AS DESIGNED THROUGH THE SOILS PROVIDED NO GROUNDWATER SEEPAGE OR INTACT COAL SEAMS ARE ENCOUNTERED. IF GROUNDWATER SEEPAGE OR COAL IS ENCOUNTERED, PORTIONS OF THE SLOPE WILL NEED TO BE RECONSTRUCTED AS DEPICTED ON DETAIL D3/GE502. THE BENCH SHOULD SLOPE INTO THE HILLSIDE AT 10H:1V. THE BOTTOM OF THE BENCH, PARALLEL TO THE HILLSIDE, SHOULD ALSO BE SHAPED TO DRAIN TO BOTH ENDS OF THE RECONSTRUCTION AREA. A 4" PERFORATED DRAIN SHOULD BE INSTALLED ALONG THE REAR OF THE BENCH. THE DRAIN SHOULD BE OUTLETTED AT BOTH ENDS OF THE RECONSTRUCTION AREA. IN ADDITION, A 12" THICK BLANKET DRAIN OF #57 STONE OR A GEO-COMPOSITE DRAIN (HANES TERRADRAIN 104/2, MARAFI G-200N OR EQUIVALENT) SHOULD BE EXTENDED UP THE REAR OF THE BENCH EXCAVATION AS NEEDED TO COLLECT ANY GROUNDWATER SEEPAGE.
2. SUBGRADE
- THE MAJORITY OF THE SITE SUBRADE IS ANTICIPATED TO CONSIST OF EXISTING FILL BUT THE SPLASH PAD AND POSSIBLY THE RESTROOM ARE ANTICIPATED TO ENCOUNTER A SEAM OF COAL DIRECTLY BELOW THE FINAL SUBGRADE ELEVATION. BASED ON THE ENCOUNTERED CONDITIONS, THE FOLLOWING STEPS ARE RECOMMENDED TO ADDRESS THE SUBGRADE:

PLAYGROUND: ONCE THE PLAYGROUND IS BROUGHT TO FINAL SUBGRADE, IF COAL IS ENCOUNTERED AT THE SURFACE, IT SHOULD BE REMOVED IN ITS ENTIRETY. THE UNDERCUT IS TO BE BACKFILLED WITH SUITABLE SITE SOILS OR 2A LIMESTONE PLACED IN 8-INCH NOMINIMAL LIFTS AND COMPACTED TO 100% OF A STANDARD PROCTOR. ONCE ANY OVER-EXCAVATION AND BACKFILL IS PERFORMED THE ENTIRE SUBGRADE SHOULD BE THOROUGHLY COMPACTED AND SEALED WITH A LARGE VIBRATORY SMOOTH-DRUM ROLLER. PROOF-ROLL THE COMPACTED SUBGRADE UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER OR HIS/HER SOILS TECHNICIAN USING A FULLY LOADED TANDEM AXLE DUMP TRUCK TO HELP DETECT ANY SOFT OR YIELD ZONES. ANY ISOLATED UNSTABLE AREAS THAT CANNOT BE STABILIZED IN-PLACE BY ADDITIONAL ROLLING SHOULD BE UNDERCUT AND REPLACED.

SPLASH PAD: IN THE AREA WHERE THE SPLASH PAD IS PROPOSED WE RECOMMEND THAT ONCE THE AREA IS BROUGHT TO FINAL SUBGRADE THAT TEST PITS ARE TO BE PERFORMED TO ENSURE THAT INTACT COAL IS GREATER THAN 3 FT BELOW FINAL SUBGRADE ELEVATION AND THAT THE FILL IS RELATIVELY UNIFORM IN NATURE. IF COAL OR SOFT SOILS ARE ENCOUNTERED AN OVER-EXCAVATION SHOULD BE PERFORMED TO REMOVE THE UNSUITABLE MATERIALS. THE UNDERCUT IS TO BE BACKFILLED WITH SUITABLE ON-SITE SOILS OR 2A LIMESTONE PLACED IN 8-INCH NOMINAL LIFTS AND COMPACTED TO 100% OF STANDARD PROCTOR. ONCE ANY OVER-EXCAVATION AND BACKFILL IS PERFORMED THE ENTIRE SUBGRADE SHOULD BE THOROUGHLY COMPACTED AND SEALED WITH A LARGE VIBRATORY SMOOTH-DRUM ROLLER. PROOF-ROLL THE COMPACTED SUBGRADE UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER OR HIS/HER SOILS TECHNICIAN USING A FULLY LOADED TANDEM AXLE DUMP TRUCK TO HELP DETECT ANY SOFT OR YIELD ZONES. ANY ISOLATED UNSTABLE AREAS THAT CANNOT BE STABILIZED IN-PLACE BY ADDITIONAL ROLLING SHOULD BE UNDERCUT AND REPLACED PRIOR TO SUBBASE PLACEMENT.

RESTROOMS: IN ORDER TO ADDRESS THE FOOTPRINT FOR THE RESTROOM IT IS IMPORTANT TO NOT ONLY CONSIDER THE STRUCTURE FOUNDATIONS BUT ALSO THE PRESENCE OF UTILITIES (PLUMBING) BENEATH THE FLOOR SLAB. WE RECOMMEND UNDERCUTTING THE ENTIRE BUILDING FOOTPRINT TO A DEPTH OF 3 FEET BELOW THE FOUNDATION BEARING ELEVATION OR THE BASE OF THE FILL (THE SHALLOWER OF THE TWO). IF THE OVER-EXCAVATION IS EXTENDED BELOW FILL ONTO RESIDUAL SOIL, TEST PITS ARE TO VERIFY THAT NO COAL IS WITHIN 3 FT OF THE FOUNDATION. THE OVER-EXCAVATION SHOULD EXTEND 5 FEET OUTSIDE THE BUILDING IN ALL DIRECTIONS. THE BASE OF THE OVER-EXCAVATION SHOULD BE AGGRESSIVELY COMPACTED WITH A LARGE RIDE ON VIBRATORY ROLLER. ANY SOFT, UNYIELDING ZONES ARE TO BE REMOVED. THE UNDERCUT SHOULD THEN BE BACKFILLED WITH SUITABLE ON-SITE SOILS OR 2A LIMESTONE PLACED IN 8-INCH NOMINAL LIFTS AND COMPACTED TO 100% OF A STANDARD PROCTOR. THE BACKFILL SHOULD BE PLACED AND TESTED UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER OR HIS/HER SOILS TECHNICIAN. THE SOIL ENCOUNTERED IS SUITABLE FOR BACKFILL PROVIDED ALL COAL IS REMOVED AND BOULDERS/CONCRETE ARE REMOVED OR PROCESSED TO A MAXIMUM 8-INCH PARTICLE SIZE.

3. FOUNDATIONS

RESTROOMS: ONCE THE OVER-EXCAVATION AND BACKFILL IS COMPLETE THE SOILS ANTICIPATED TO BE DIRECTLY BELOW THE RESTROOM FOUNDATION WILL LIKELY CONSIST OF ENGINEERED FILL. PROVIDED THE RECOMMENDATIONS IN THIS REPORT ARE STRICTLY IMPLEMENTED, THE PROPOSED RESTROOM STRUCTURE CAN BE SUPPORTED ON CONVENTIONAL SHALLOW LINE FOUNDATIONS DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE NOT EXCEEDING 2,000 PSF.

PARK EQUIPMENT: THE FOUNDATIONS FOR THE PLAY EQUIPMENT TYPICALLY CONSIST OF SHALLOW AUGER HOLES. THE PLAYGROUND EQUIPMENT INSTALLER SHOULD BE PREPARED TO ENCOUNTER OBSTRUCTIONS IN THE FILL AND REMOVE THEM IF NECESSARY.

4. FILL PLACEMENT

ALL FILL MATERIALS PLACED AS GENERAL FILL TO CONSTRUCT THE SITE SHOULD BE PLACED IN HORIZONTAL LAYERS. LIFT THICKNESS SHOULD BE ADJUSTED BASED ON THE SIZE OF THE COMPACTION EQUIPMENT. IN GENERAL, ALL FILL SHOULD BE PLACED IN MAXIMUM 10-INCH THICK LOOSE LIFTS AND COMPACTED WITH A VIBRATORY PADFOOT ROLLER OR VIBRATORY SMOOTH DRUM ROLLER. ALL FILL SHOULD BE COMPACTED UNTIL THE IN-PLACE DENSITY IS EQUAL TO OR GREATER THAN 100 PERCENT OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY AS DETERMINED BY ASTM D698 METHODS. ALL FILL MATERIALS SHOULD BE MOISTURE CONDITIONED TO WITHIN 3% PERCENT OF THE OPTIMUM MOISTURE CONTENT AT THE TIME OF PLACEMENT. ALL EFFORTS SHOULD BE MADE TO REDUCE ANY ROCK PARTICLES TO A MANAGEABLE SIZE (I.E. MAXIMUM 8-INCH PARTICLE) TO BE INCORPORATED INTO A 10-INCH LOOSE LIFT. FILL MATERIALS ARE TO BE FREE OF ORGANICS, PYRITE, COAL, AND FAT CLAY. WHERE REPRESENTATIVE DENSITY TEST CANNOT BE OBTAINED, EACH LIFT SHOULD BE COMPACTED TO A VISUAL, NON-DEFLECTIVE AND STABLE CONDITION. THE MOISTURE CONTENT OF THE FILL MATERIALS SHOULD BE MAINTAINED AS DEEMED NECESSARY TO AID IN ATTAINING THE REQUIRED COMPACTION AND TO MAINTAIN OVERALL STABILITY (MINIMAL PUMPING, YIELDING AND/OR RUTTING).

5. UNDERGROUND UTILITIES

IT SHOULD BE ANTICIPATED THAT OBSTRUCTIONS WILL BE ENCOUNTERED DURING UTILITY INSTALLATION, AND THAT OBSTRUCTIONS IN THE EXISTING FILL WILL NEED REMOVED. THE SOILS ACROSS THE PROJECT AREA CLASSIFY AS OSHA TYPE B WITH RESPECT TO EXCAVATIONS AND SIDEWALL STABILITY. FOR EXCAVATIONS LESS THAN 20 FT DEEP, THIS CLASSIFICATION REQUIRES THAT EXCAVATIONS TO BE SLOPED BACK TO 1H:1V TO MAINTAIN SIDEWALL STABILITY AND TO MEET OSHA SAFETY REQUIREMENTS. STABLE BEDROCK MAY BE CUT VERTICAL WHERE ENCOUNTERED.

FOOTING EXCAVATIONS, UTILITY TRENCHES AND OTHER SMALLER EXCAVATIONS SHOULD BE BACKFILLED USING EITHER ON-SITE SOILS OR IMPORTED FILL APPROVED BY THE GEOTECHNICAL ENGINEER. BACKFILL SHOULD BE SPREAD IN HORIZONTAL LIFTS IN APPROPRIATE THICKNESS FOR THE COMPACTION EQUIPMENT BEING USED. GENERALLY, LIFT THICKNESS SHOULD BE LIMITED TO 6 INCHES FOR HAND OPERATED EQUIPMENT. TRENCHES THAT CAN ACCOMMODATE LARGER ROLLERS MAY BE BACKFILLED IN LIFTS NOT EXCEEDING 10 INCHES, PROVIDED ADEQUATE COMPACTION IS ATTAINED. EACH LIFT OF BACKFILL SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY WITH MOISTURE CONTENT ADJUSTED TO WITHIN (+/-) 3% OF OPTIMUM PRIOR TO COMPACTION.

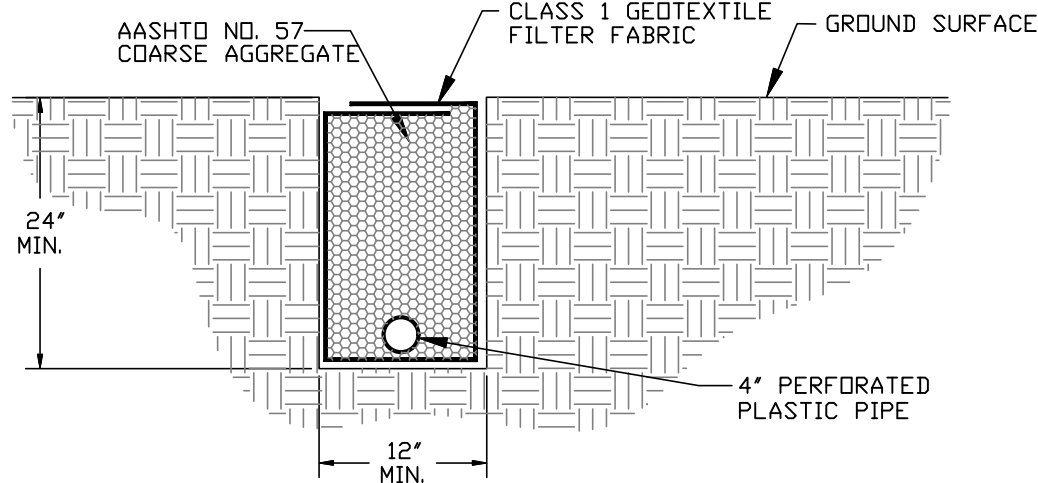
6. GROUNDWATER

ALTHOUGH NO GROUNDWATER WAS ENCOUNTERED AT THE TEST LOCATIONS THERE IS A POTENTIAL FOR SEEPS AND SPRINGS TO FORM/DEVELOP DURING AND AFTER THE COMPLETION OF THE DEVELOPMENT CONSTRUCTION. SEEPS AND SPRINGS CAN NEGATIVELY IMPACT CUT AND FILL SLOPES AND RESULT IN SLOPE INSTABILITY. ALL SEEPS AND SPRINGS THAT DEVELOP DURING AND AFTER THE COMPLETION OF DEVELOPMENT CONSTRUCTION SHOULD BE ADDRESSED IMMEDIATELY UPON OBSERVATION TO MAINTAIN THE LONG-TERM STABILITY OF THE SLOPES.

GENERAL SITE EARTHWORK RECOMMENDATIONS:

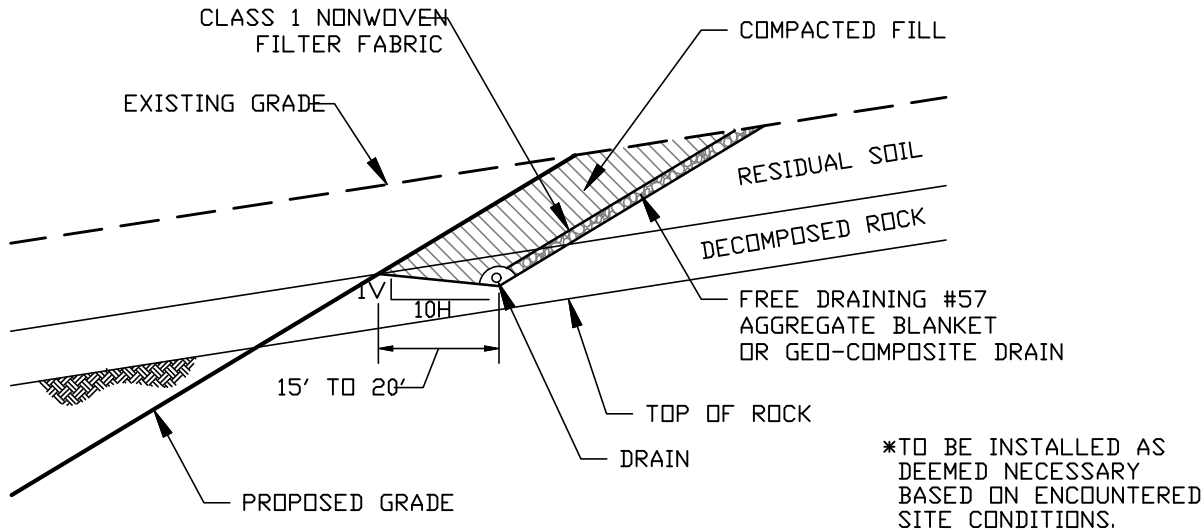
PER PS&R GEOTECHNICAL EXPLORATION REPORT, THE FOLLOWING ARE RECOMMENDED:

1. ALL FILL AREAS SHOULD BE CLEARED OF TREES, STUMPS, AND VEGETATION AND STRIPPED OF TOPSOIL/ORGANIC SOILS PRIOR TO THE START OF FILL PLACEMENT.
2. THE DISTRIBUTION AND GRADATION OF FILL MATERIALS SHALL BE SUCH THAT THE FILL WILL BE FREE OF LENSES, POCKETS, OR LAYERS OF MATERIALS DIFFERING SUBSTANTIALLY IN GRADATION FORM THE SURROUNDING MATERIALS WITHIN THE DESIGNATED FILL AREAS.
3. FILL SHALL BE PLACED AND SPREAD IN SUCCESSIVE AND APPROXIMATE HORIZONTAL LAYERS OF UNIFORM THICKNESS BASED ON THE NOMINAL PARTICLE SIZE OF MATERIAL AND THE SIZE AND TYPE OF THE AVAILABLE COMPACTION EQUIPMENT. IN GENERAL, SOIL SHOULD BE PLACED IN NO GREATER THAN NOMINAL 10 INCH MAXIMUM LOOSE LIFTS.
4. LARGER ROCK PARTICLES/BOULDERS SHOULD BE PROCESSED DOWN TO A MAXIMUM 8 INCH PARTICLE SIZE TO BE INCORPORATED INTO BULK FILL. OTHERWISE, LARGER ROCK PARTICLES/BOULDERS SHOULD BE PLACED IN NON-STRUCTURAL GREEN AREAS OR HAULED OFF SITE.
5. ADEQUATE COMPACTIVE EFFORT IS APPLIED BY UTILIZING THE PROPER COMPACTION EQUIPMENT FOR THE COMPOSITION OF THE FILL MATERIAL BEING PLACED. SEGMENTED, SHEEPSFOOT, AND/OR PADFOOT ROLLERS SHOULD BE USED WHEN PLACING PREDOMINANTLY CLAYEY (COHESIVE) FILL MATERIALS. THESE TYPES OF ROLLERS ARE ALSO EFFECTIVE ON CLAYEY SHALES, CLAYSTONE, AND SOFTER SANDSTONE TO BREAK DOWN THE ROCK PARTICLES. SMOOTH DRUM VIBRATORY ROLLERS SHOULD BE UTILIZED ON PREDOMINTAEY GRANULAR FILL MATERIALS AND TO SEAL CLAYEY SOILS TO HELP PREVENT SURFACE WATER INFILTRATION AND/OR TO PROMOTE DRAINAGE.
6. ALL FILL MATERIALS SHALL BE COMPACTED BY A SUFFICIENT NUMBER OF COMPLETE TRIPS (I.E. PASSES) OF THE APPROPRIATE COMPACTION EQUIPMENT TO ATTAIN A MINIMUM OF 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM TEST DESIGNATION D698 (STAND PROCTOR). MAINTAIN THE MOISTURE CONTENT OF THE FILL MATERIALS AS NECESSARY TO ATTAIN THE DESIRED COMPACTION DENSITY, TYPCIALY (+/-) 3% OF OPTIMUM MOISTURE.
7. UNDISTURBED AND/OR FILL MATERIALS PLACED WITHIN THE UPPER 12 INCHES OF FINAL GRADE SHOULD BE COMPACTED TO ATTAIN A MINIMUM OF 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM TEST DESIGNATION D698 (STANDARD PROCTOR) AT AN IN-PLACE MOISTURE WITHIN 3% OF THE MATERIALS OPTIMUM MOISTURE CONTENT. THE ENTIRE SUBGRADE SURFACE SHOULD BE THOROUGHLY SEALED USING A VIBRATORY SMOOTH DRUM ROLLER.
8. TO VERIFY THE SPECIFIED DEGREE OF COMPACTION ADN TO DETERMINE THE IN-PLACE MOISTURE CONTENT AS STATED ABOVE, IN-PLACE FIELD DENSITY TESTS SHOULD BE PERFORMED IN ACCORDANCE TO THE PROCEDURES OF ASTM D6938 (NUCLEAR DENSOMETER).
9. IN ADDITION TO IN-PLACE FIELD DENSITY TESTING, ACCEPTANCE SHOULD ALSO BE PREDICATED ON A VISUAL PERFORMANCE CRITERIA. OBVIOUS SURFACE RUTTING AND/OR DEFLECTION THAT ARE JUDGED TO BE DETRIMENTAL TO THE OVERALL STABILITY OF THE FILL AREA SHOULD BE REMOVED, MOISTURE CONDITIONED AND RECOMPACTED, OR OTHERWISE ADDRESSED PRIOR TO ACCEPTING THE LIFT.
10. WHERE PREDOMINATELY "ROCKY" FILL MATERIALS ARE PLACED OR WHERE REPRESENTATIVE NUCLEAR DENSOMETER TESTS CANNOT BE OBTAINED, A VISUAL NON-DEFLECTION CRITERIA SHOULD BE DEVELOPED IN CONJUNCTION WITH AN ADEQUATE NUMBER OF ROLLER PASSES FOR ACCEPTANCE.

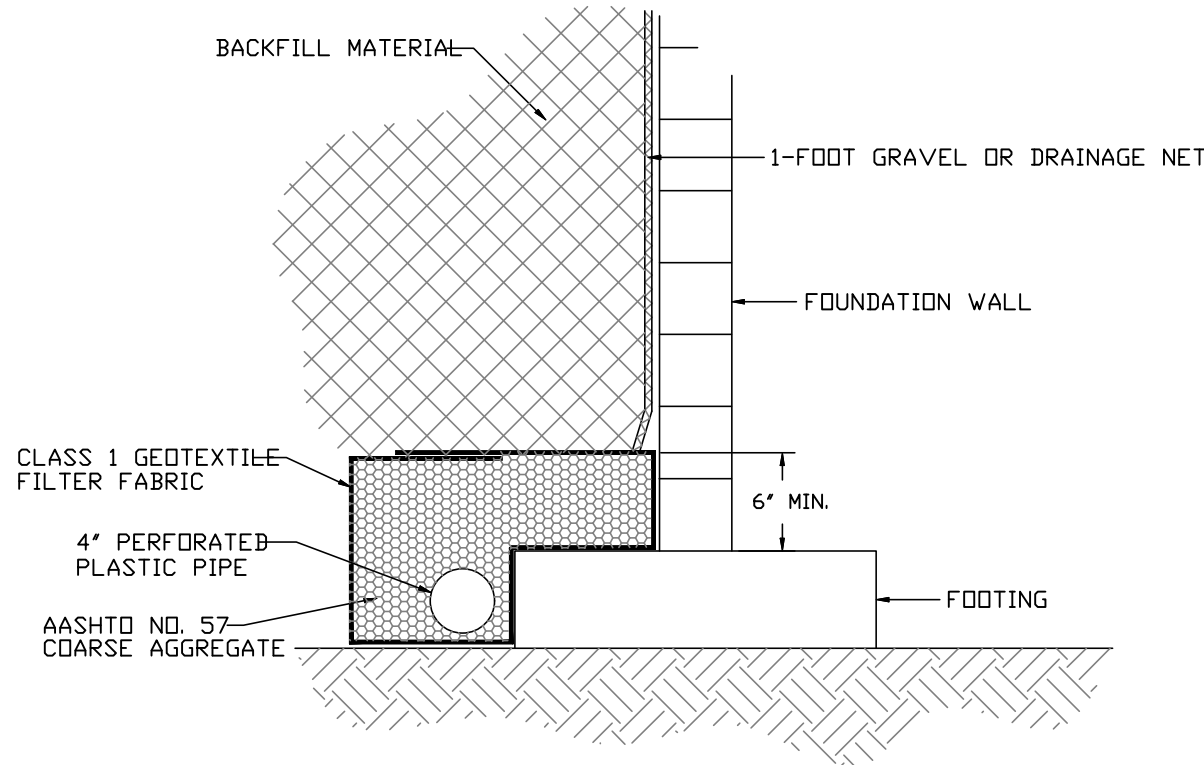


NOTE:
1) 4" PERFORATED PLASTIC PIPE EXTENDED TO DRAIN AWAY FROM SLOPE AND WATER DIVERTED OR COLLECTED IF NECESSARY TO PREVENT EMBANKMENT DAMAGE.
2) PROVIDE DRAINAGE OUTLETS AT 50-FOOT HORIZONTAL INTERVALS.

D1 TYPICAL SPRING DRAIN DETAIL
GE502 NOT TO SCALE

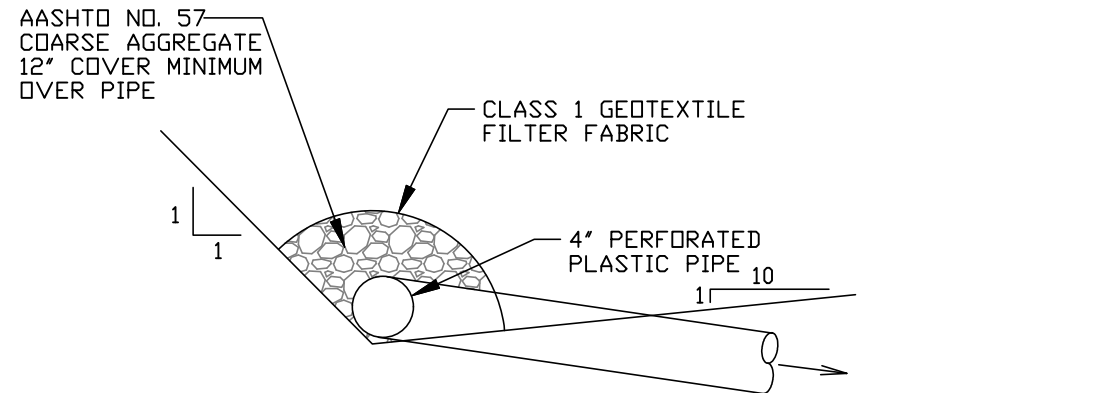


D3 TYPICAL CUT SLOPE PROTECTION DETAIL
GE502 NOT TO SCALE



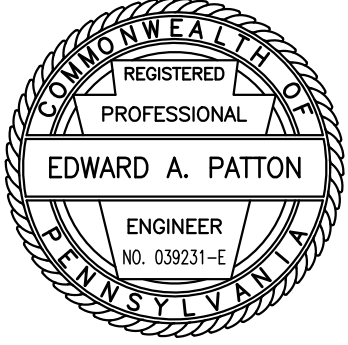
NOTE:
1) 4" PERFORATED PLASTIC PIPE EXTENDED TO DRAIN AWAY FROM HOUSE TO SURFACE OR TO APPROVED COLLECTION POINT.
2) BEGIN DRAINAGE MAT OR GRAVEL NO MORE THAN 6" BELOW GROUND SURFACE.

D2 TYPICAL FOUNDATION DRAIN DETAIL
GE502 NOT TO SCALE



*OUTLETS AT APPROXIMATELY 100 FT. CENTERS FOR KEYWAY
*OUTLETS AT APPROXIMATELY 100 FT. CENTERS FOR BENCHES
*WALL OUTLET DRAINS TO BE COVERED WITH 12" MINIMUM NO. 57 AGGREGATE/2B STONE AND WRAPPED IN NON-WOVEN FILTER FABRIC

D4 KEYWAY/BENCH DRAIN DETAIL
GE502 NOT TO SCALE



Signature of Edward A. Patton

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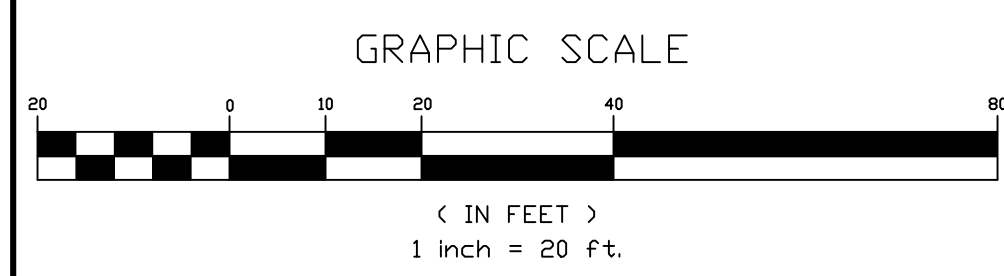
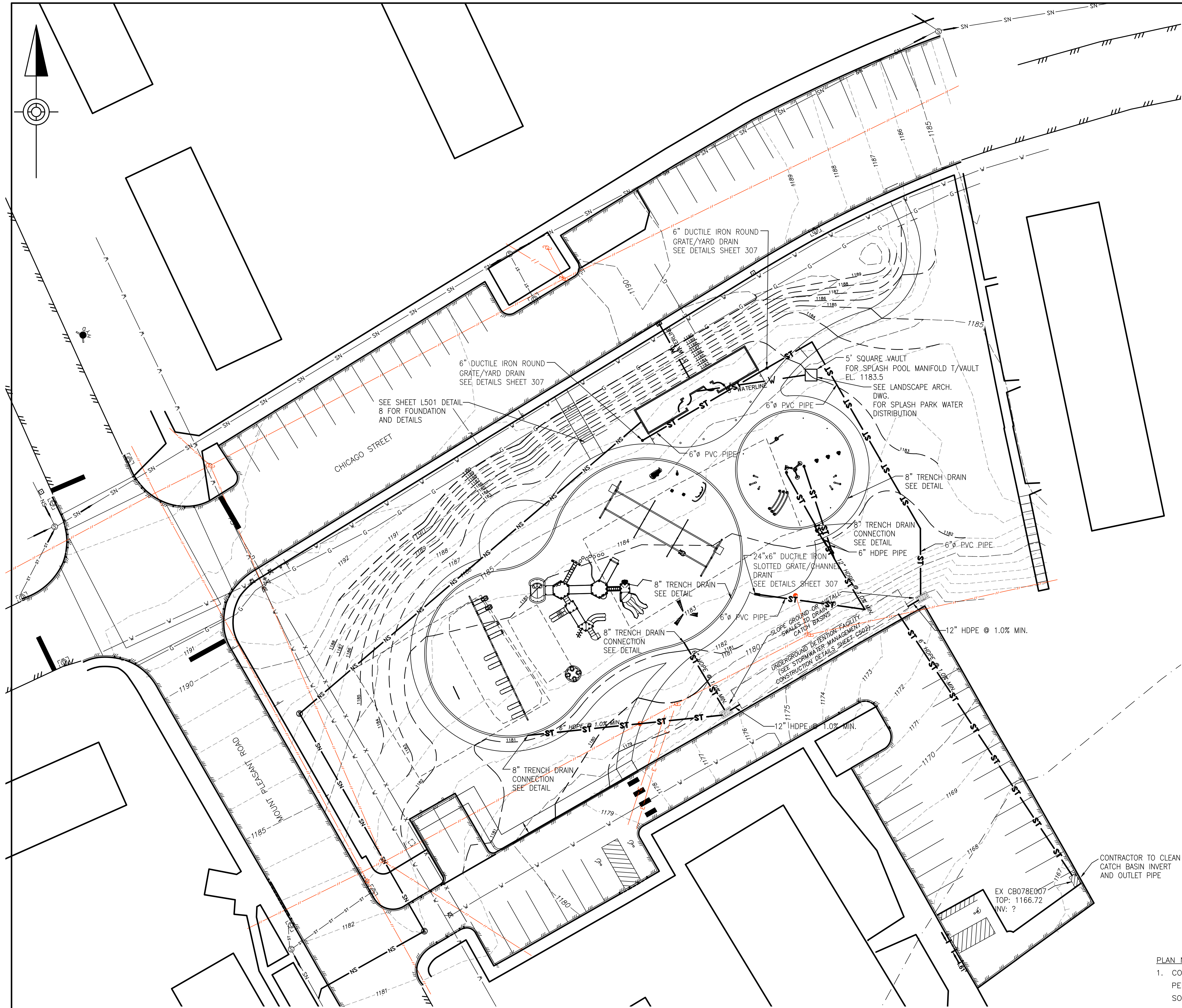
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DATE PRINTED
07/24/26

GEOTECHNICAL NOTES & DETAILS
HACP NVH - Family Recreational Area
525 Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

C303

GEOTECHNICAL DETAILS



UTILITY PLAN

GEOTECHNICAL NOTES:
1. SEE SHEET C-7 FOR GEOTECHNICAL RECOMMENDATIONS AND DETAILS.

- PLAN NOTES:
- | | |
|--|--|
| 1. CONTOUR ELEVATION DATUM NAD83 PENNSYLVANIA STATE PLANES, SOUTH ZONE, US FOOT. | 5. WATERLINE NOTED THUS: [— w —]. |
| 2. SURVEY AND TOPO TAKEN FROM HAMPTON TECHNICAL ASSOCIATES. | 6. GASLINE NOTED THUS: [— G —]. |
| 3. UNDERGROUND ELECTRIC NOTED THUS: [— E —]. | 7. UNKNOWN UTILITY NOTED THUS: [— x —]. |
| 4. OVERHEAD ELECTRIC NOTED THUS: [— // —]. | 8. SANITARY NOTED THUS: [— SN —]. |
| | 9. STORMWATER NOTED THUS: [— ST —]. |
| | 10. EXISTING CONTOURS NOTED THUS: [- - - - -]. |
| | 11. PROPOSED CONTOURS NOTED THUS: [— — — —]. |

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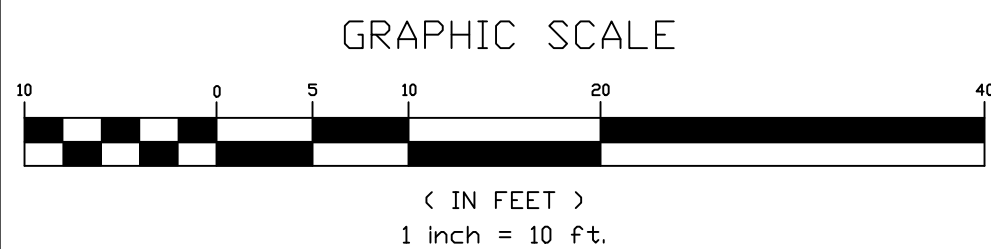
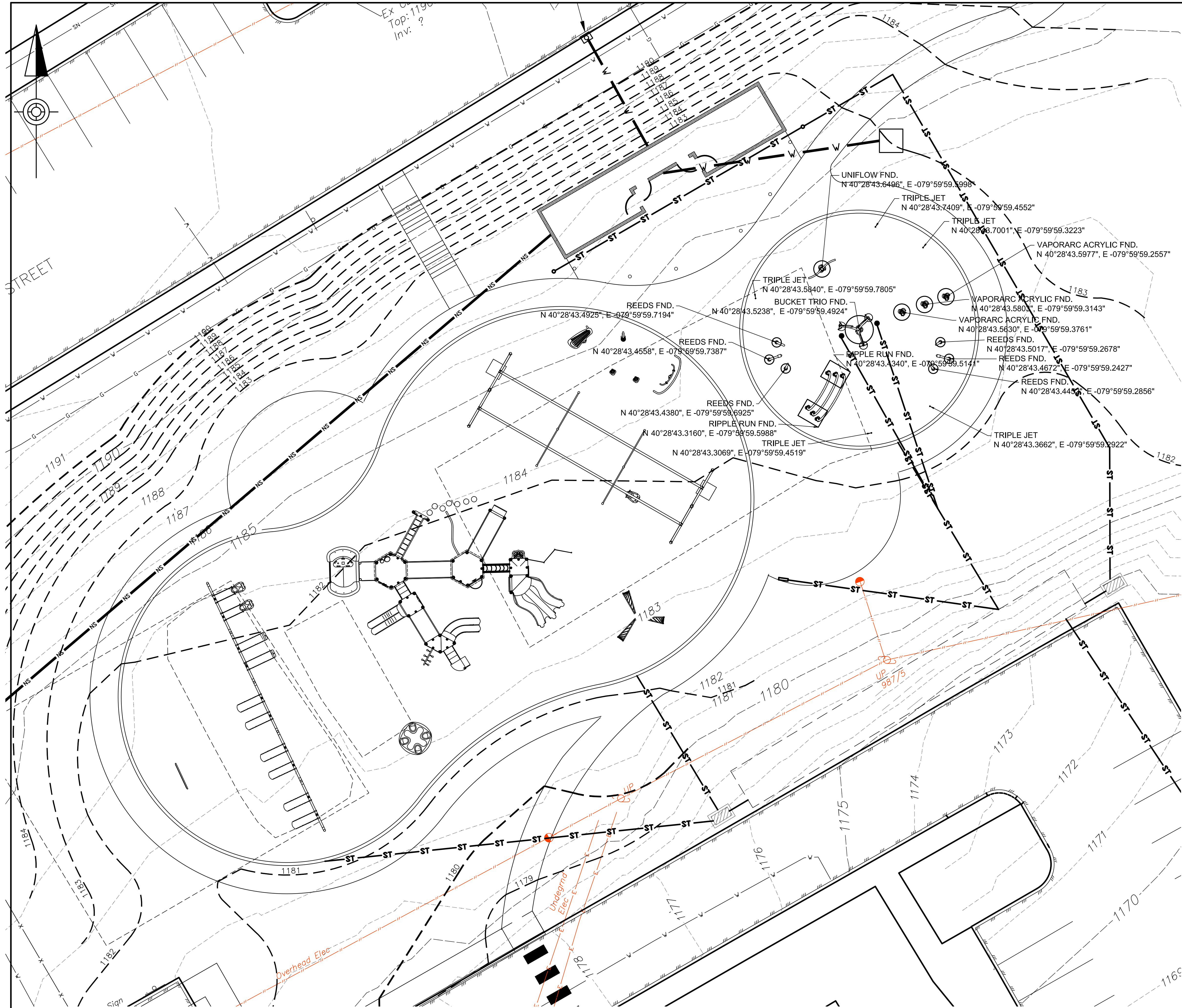
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UTILITY PLAN

SHEET NUMBER:

C304



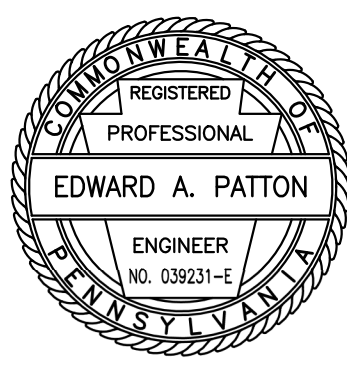
FOUNDATION PLAN

GEOTECHNICAL NOTES:

- 1. SEE SHEET C-7 FOR GEOTECHNICAL RECOMMENDATIONS AND DETAILS.

PLAN NOTES:

- 1. CONTOUR ELEVATION DATUM NAD83 PENNSYLVANIA STATE PLANES, SOUTH ZONE, US FOOT.
- 2. SURVEY AND TOPO TAKEN FROM HAMPTON TECHNICAL ASSOCIATES.



Edward A. Patton

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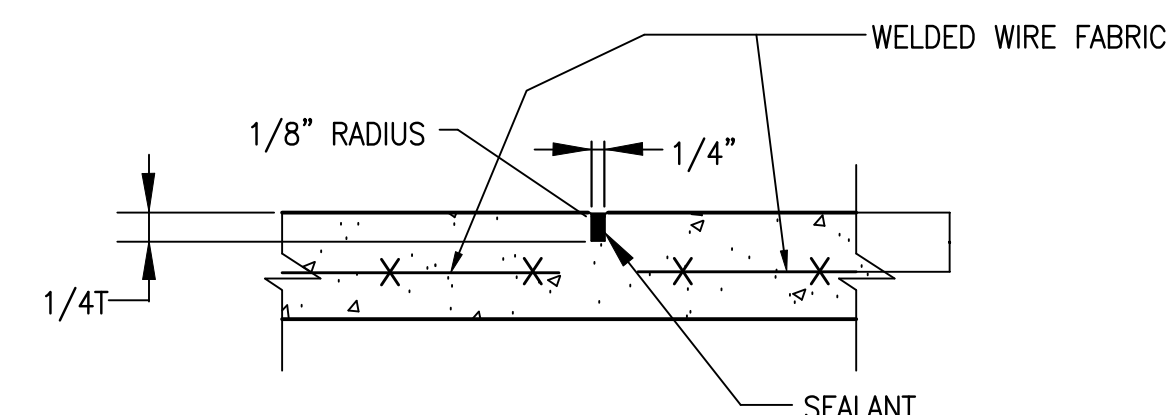
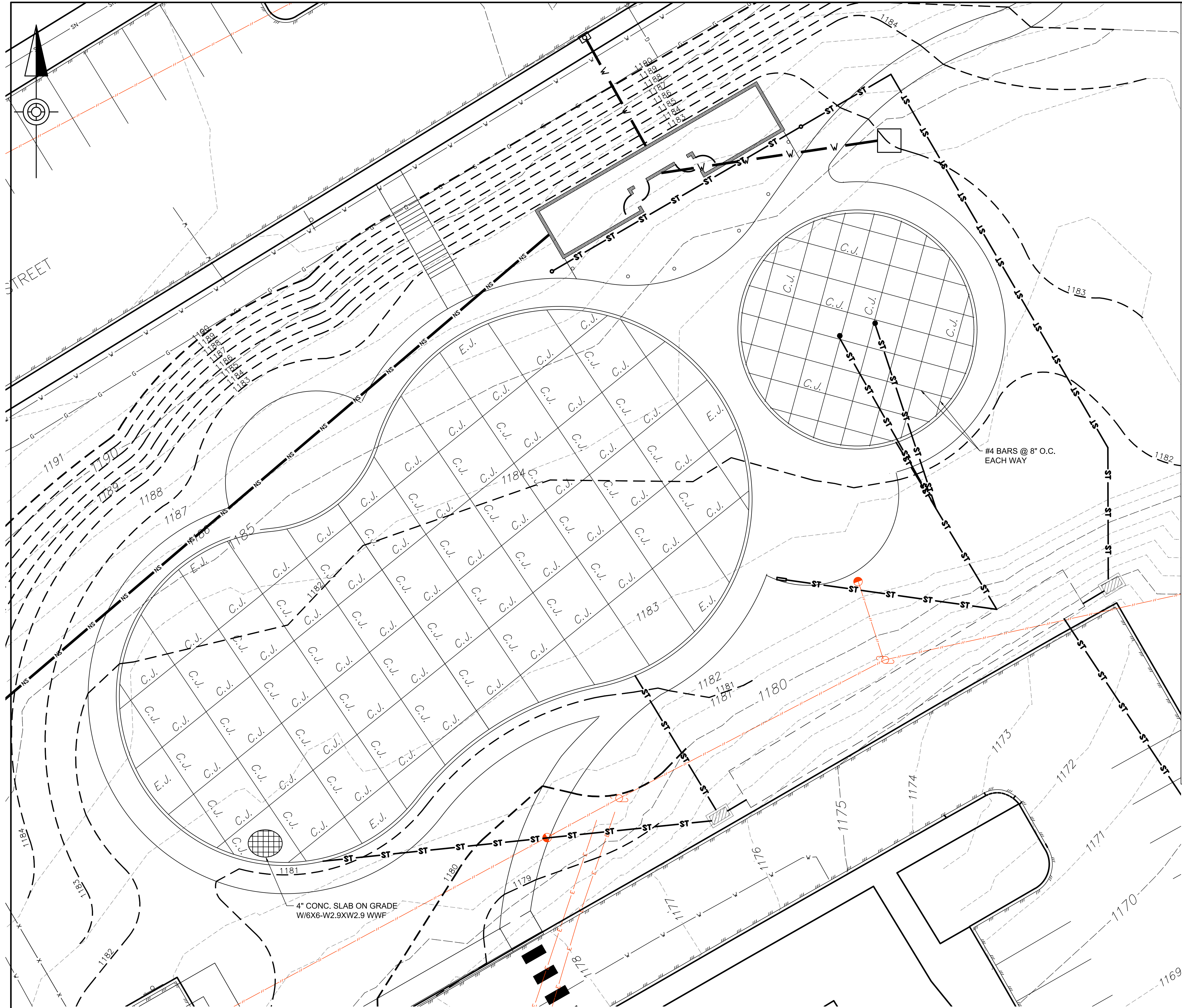
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FOUNDATION PLAN

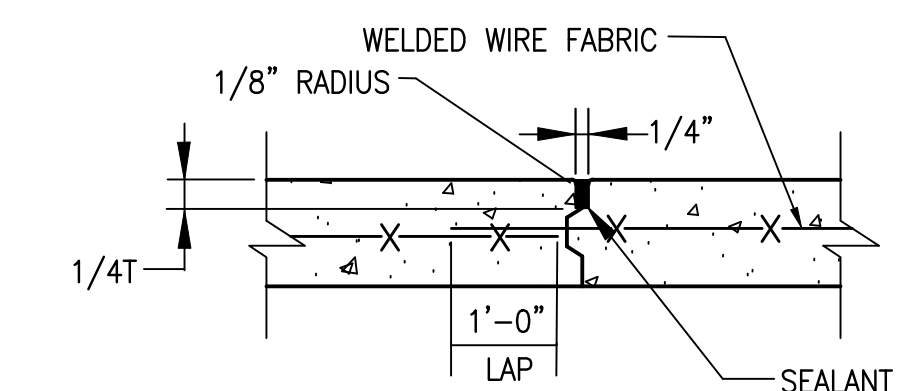
HACP NVH - Family Recreational Area
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Pittsburgh, PA 15214

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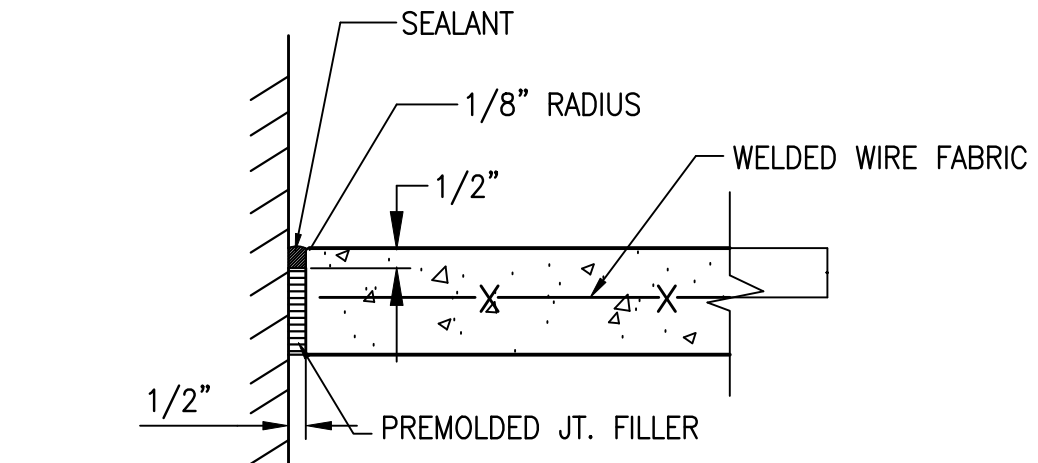
C305



CONTROL JOINT (C.J.)



CONSTRUCTION JOINT (C.J.)



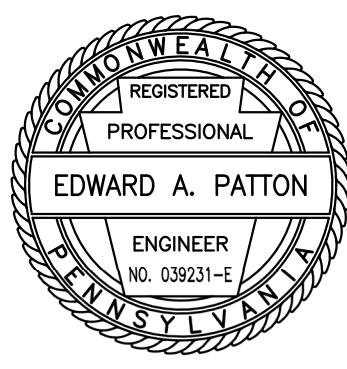
EDGE JOINT (E.J.)

- GENERAL NOTES:
1. CONTROL JOINTS NOTED THUS: (C.J.)
 2. CONTROL JOINTS SPACED AT 12 FEET O.C. FOR 4 INCH THICK SLAB.
 3. CONTROL JOINTS SPACED AT 24 FEET O.C. FOR 8 INCH SLAB.
 4. CONTROL JOINT DEPTH IS 1 INCH FOR 4 INCH THICK SLAB AND 2 INCHES FOR 8 INCH SLAB.
 5. PER ACI 360R-10 SECTION 5.3.5, CONTROL JOINTS MUST BE CUT BEFORE UNCONTROLLED CRACKING INITIATES. THIS TYPICALLY MEANS BEGINNING SOFT-CUT SAW-CUTTING AS SOON AS THE CONCRETE SURFACE IS FIRM ENOUGH TO WALK WITHOUT DISTURBING THE SURFACE FINISH - USUALLY WITHIN 4-8 HOURS OF PLACEMENT DEPENDING ON TEMPERATURE AND CONCRETE MIX.
 6. INSTALL SEALANT AFTER MINIMUM 24 HOURS OF CURING.

SLAB ON GROUND DETAILS
SCALE: N.T.S.

GEOTECHNICAL NOTES:

1. SEE SHEET C-7 FOR GEOTECHNICAL RECOMMENDATIONS AND DETAILS.
- PLAN NOTES:
1. CONTOUR ELEVATION DATUM NAD83 PENNSYLVANIA STATE PLANES, SOUTH ZONE, US FOOT.
 2. SURVEY AND TOPO TAKEN FROM HAMPTON TECHNICAL ASSOCIATES.



Edward A. Patton

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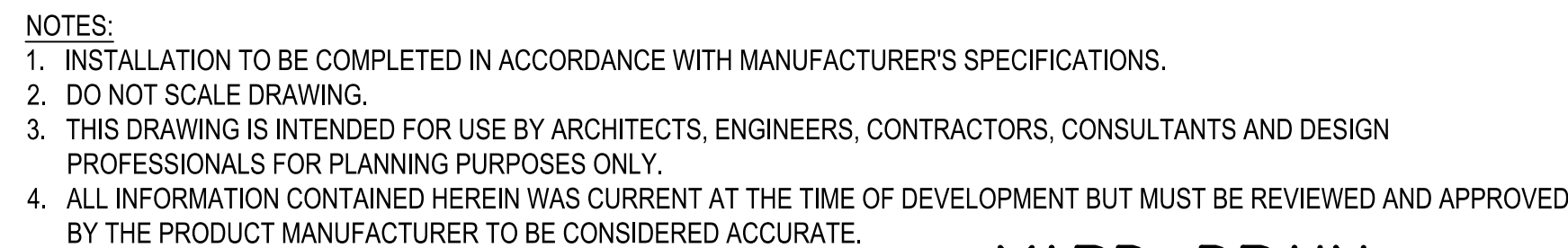
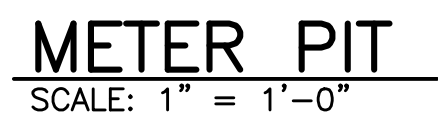
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SLAB PLAN
HACP NVH - Family Recreational Area
525 Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

C306



1
C309

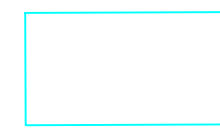
Water Equipment Manifold & Piping Layout

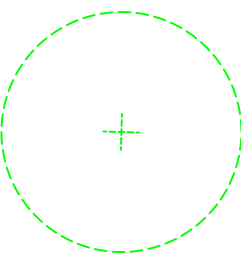
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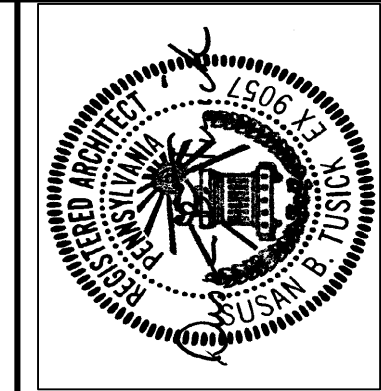
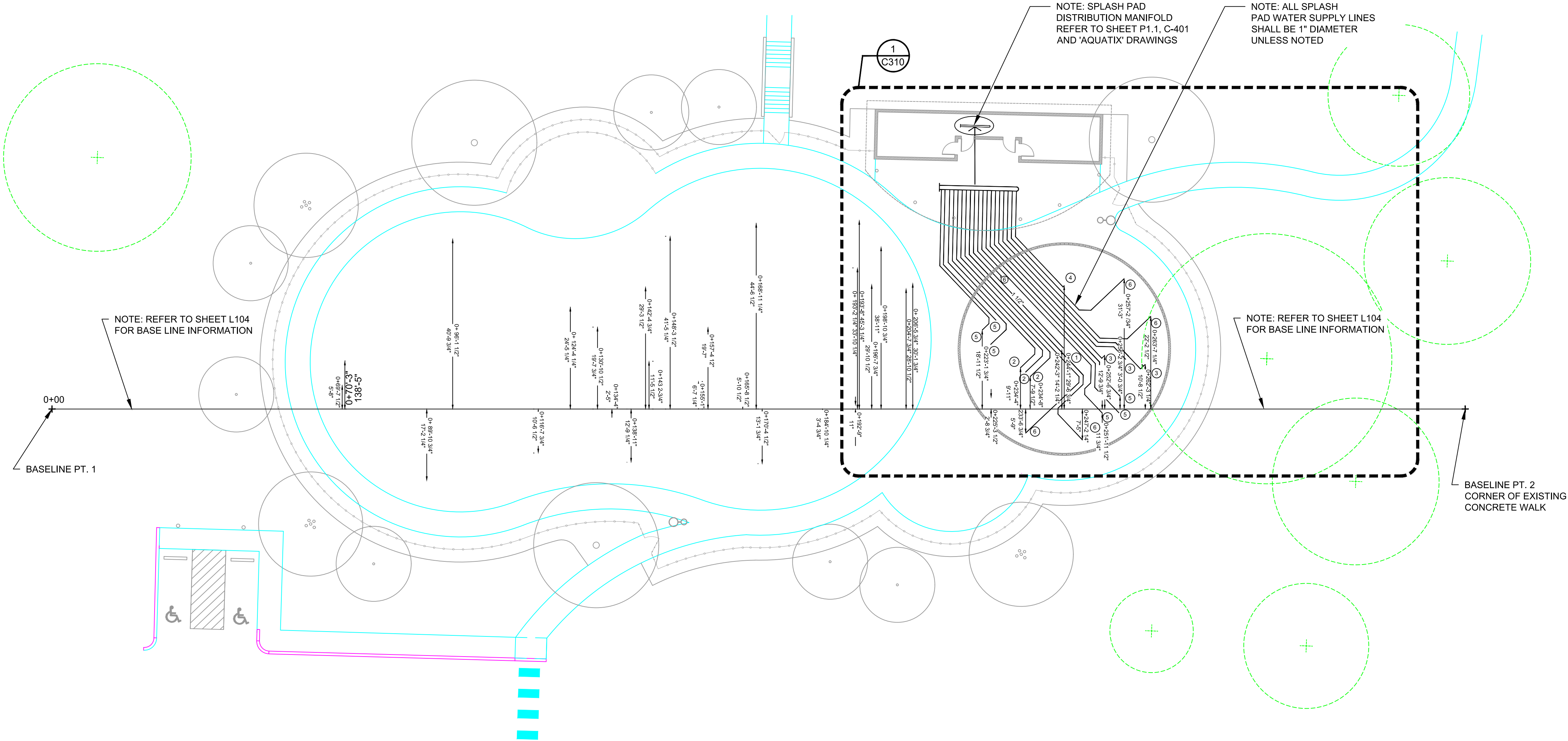
NOTES

1. SURVEY PREPARED BY HAMPTON TECHNICAL ASSOCIATES, INC., DATED AUGUST 16, 2022.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC., WHICH MAY OCCUR AS A RESULT OF CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO COMPLETE THE WORK.
4. INLETS SHALL BE MAINTAINED SO AS NOT TO ALLOW ANY SEDIMENT OR DEBRIS TO PREVENT THE FLOW OF WATER INTO THE INLETS. ANY OBSTRUCTIONS TO THE PIPE SHOULD BE REMOVED.
5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO STARTING ANY WORK
6. AT ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS, CONCRETE ROADWAY OR CONCRETE SIDEWALK ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENTS SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
7. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW.
8. GENERAL CONTRACTOR TO FINE GRADE ALL DISTURBED BEDS & PLANTING AREAS IN PREPARATION FOR LANDSCAPE CONTRACTOR.
9. REFER TO SPECIFICATIONS FOR SITE MATERIAL SELECTIONS.

LEGEND

-  PROPOSED CONCRETE PAVING
-  PROPOSED PLAYGROUND SAFETY SURFACING
-  PROPOSED CONCRETE CURB

-  EXISTING TREE TO REMAIN



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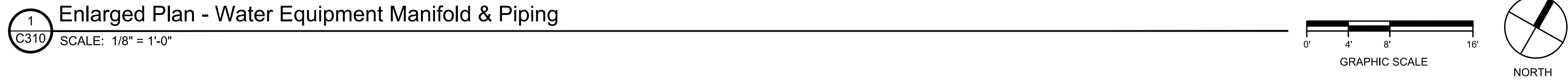
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C309	SHEET NUMBER:		WATER EQUIPMENT MANIFOLD & PIPING LAYOUT		DRAWN BY JAG	REVISIONS
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			DATE ISSUED 07/31/26			
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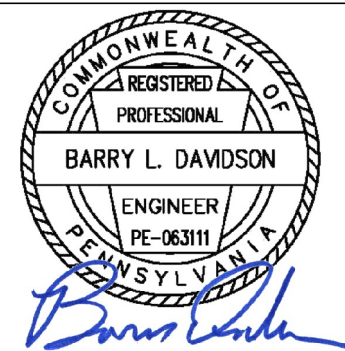


1. SURVEY PREPARED BY HAMPTON TECHNICAL ASSOCIATES, INC, DATED AUGUST 16, 2022.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC., WHICH MAY OCCUR AS A RESULT OF CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO COMPLETE THE WORK.
4. INLETS SHALL BE MAINTAINED SO AS NOT TO ALLOW ANY SEDIMENT OR DEBRIS TO PREVENT THE FLOW OF WATER INTO THE INLETS. ANY OBSTRUCTIONS TO THE PIPE SHOULD BE REMOVED.
5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO STARTING ANY WORK
6. AT ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS, CONCRETE ROADWAY OR CONCRETE SIDEWALK ABOUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENTS SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
7. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW.
8. GENERAL CONTRACTOR TO FINE GRADE ALL DISTURBED BEDS & PLANTING AREAS IN PREPARATION FOR LANDSCAPE CONTRACTOR.
9. REFER TO SPECIFICATIONS FOR SITE MATERIAL SELECTIONS.

Legend:

- PROPOSED CONCRETE PAVING
- PROPOSED PLAYGROUND SAFETY SURFACING
- PROPOSED CONCRETE CURB
- EXISTING TREE TO REMAIN

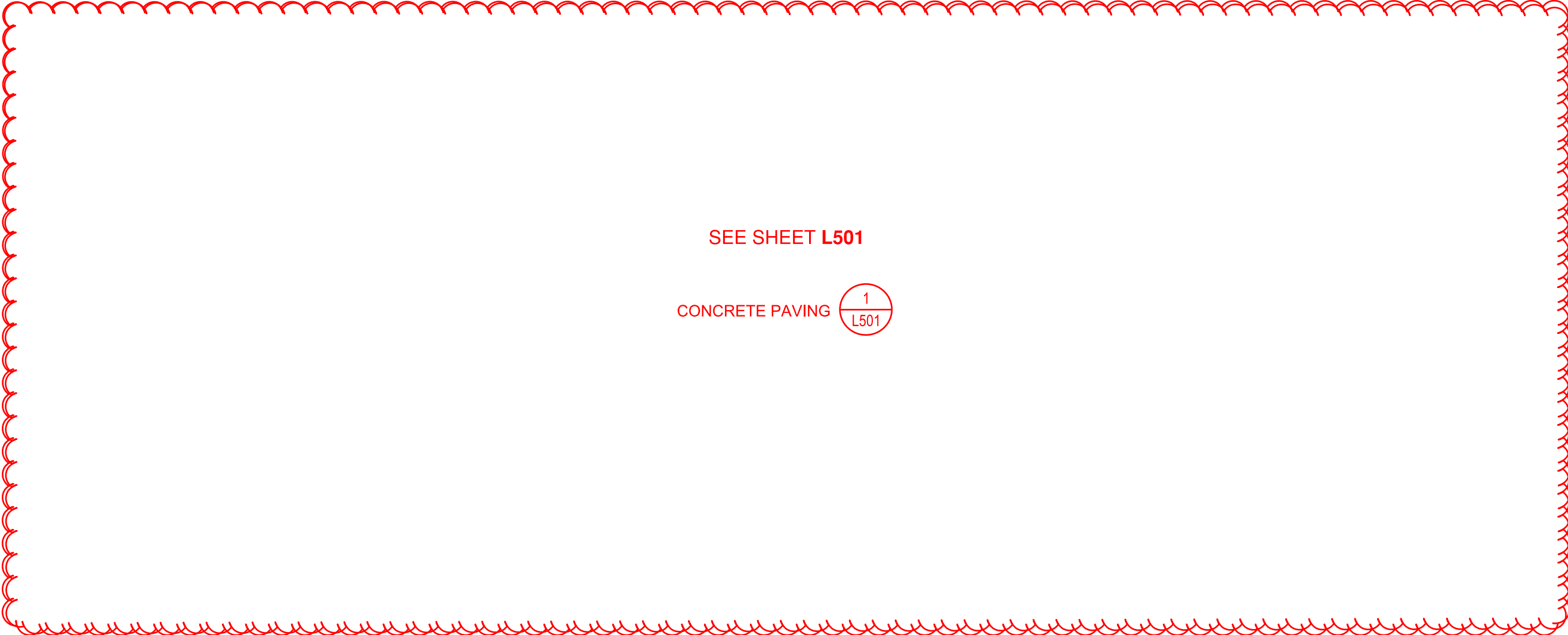
C310



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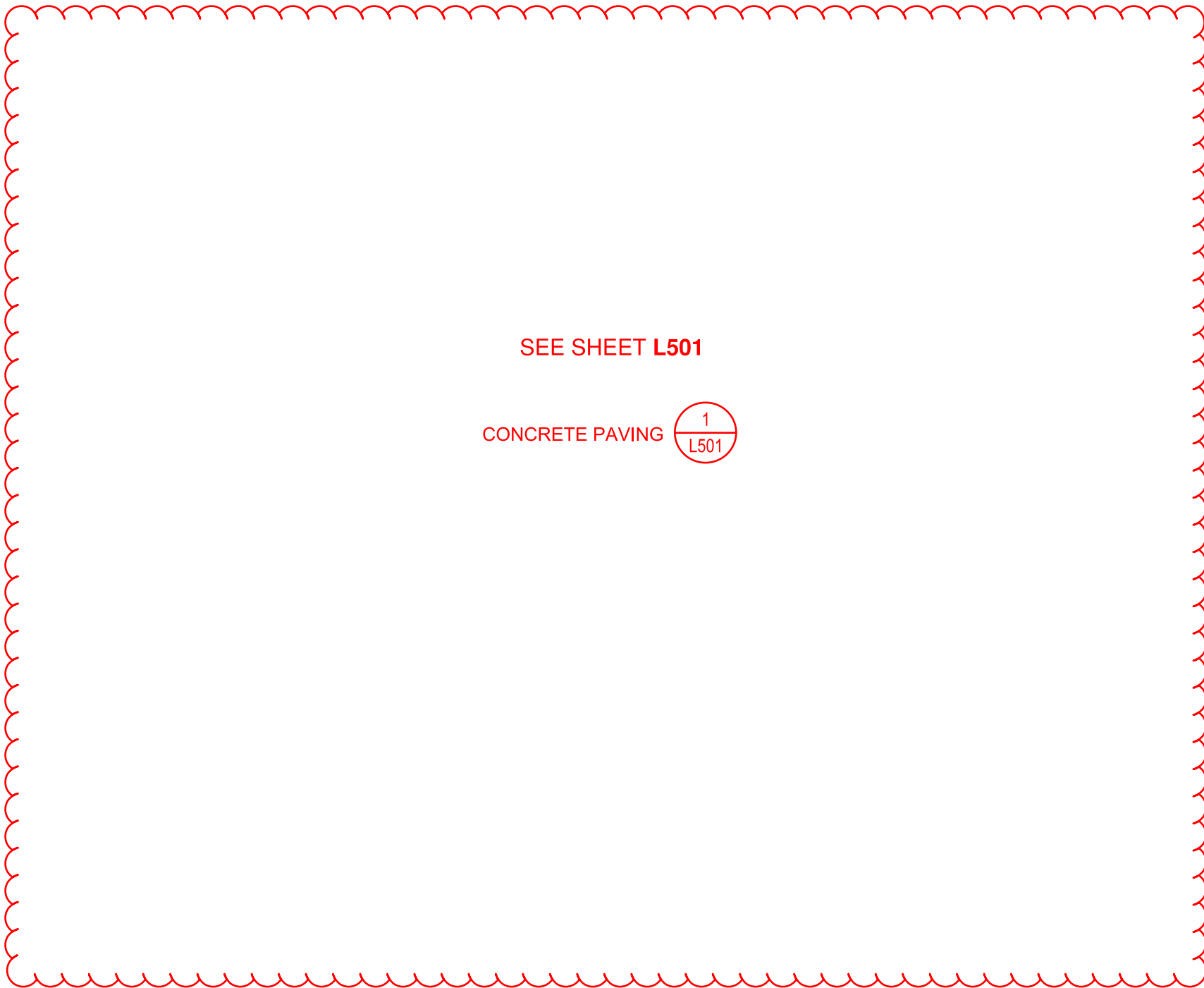
SHEET NUMBER:	HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214	DRAWN BY:		REVISED FOR ADDITIONAL CLARITY (6/26)
		SJD		
		CHECKED BY		
		BLD		
		DATE ISSUED	04-10-2023	
		DATE PRINTED	04-10-2023	

C401



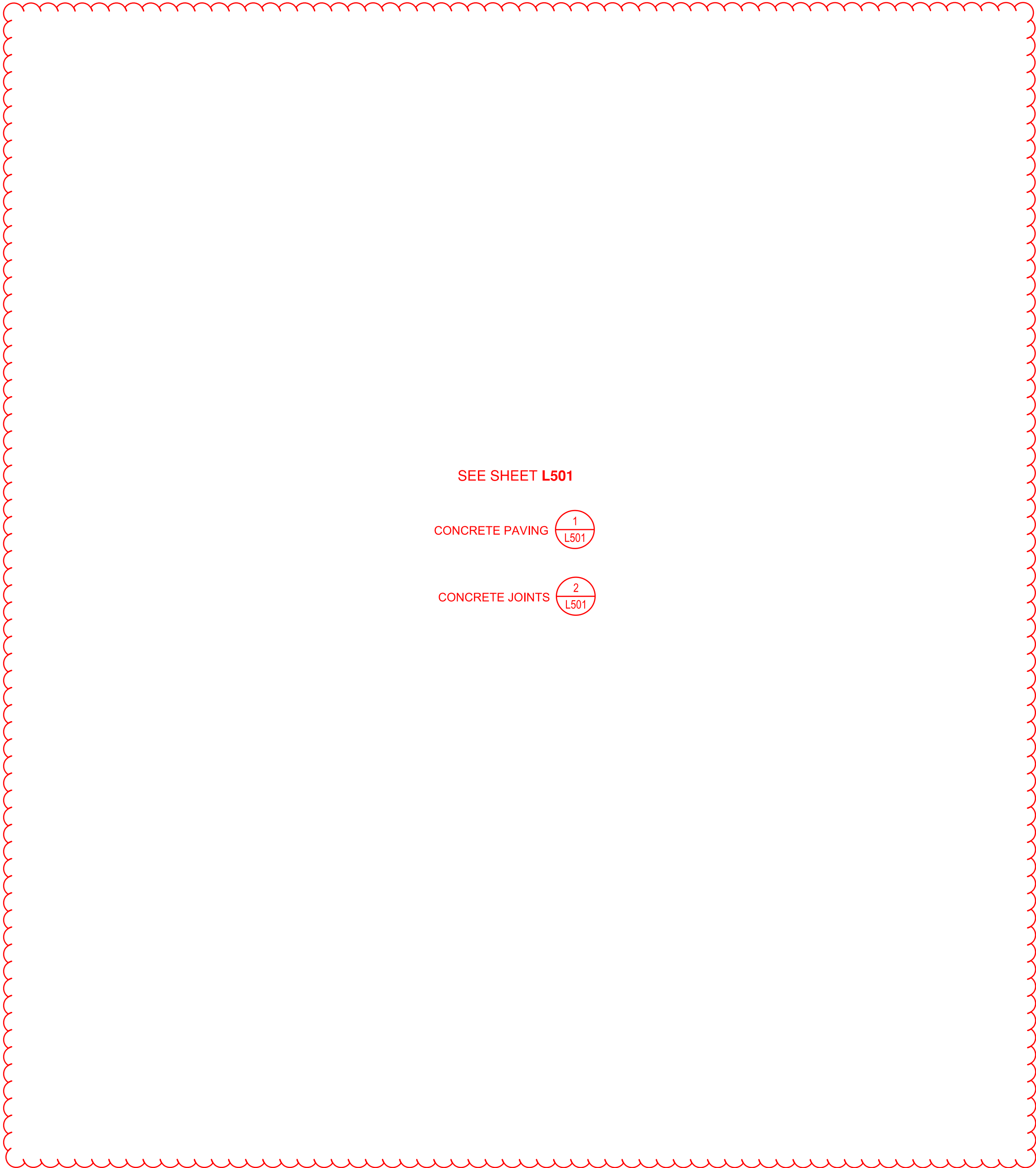
STANDARD DUTY CONCRETE PAVEMENT PAD SECTION

SCALE: NTS



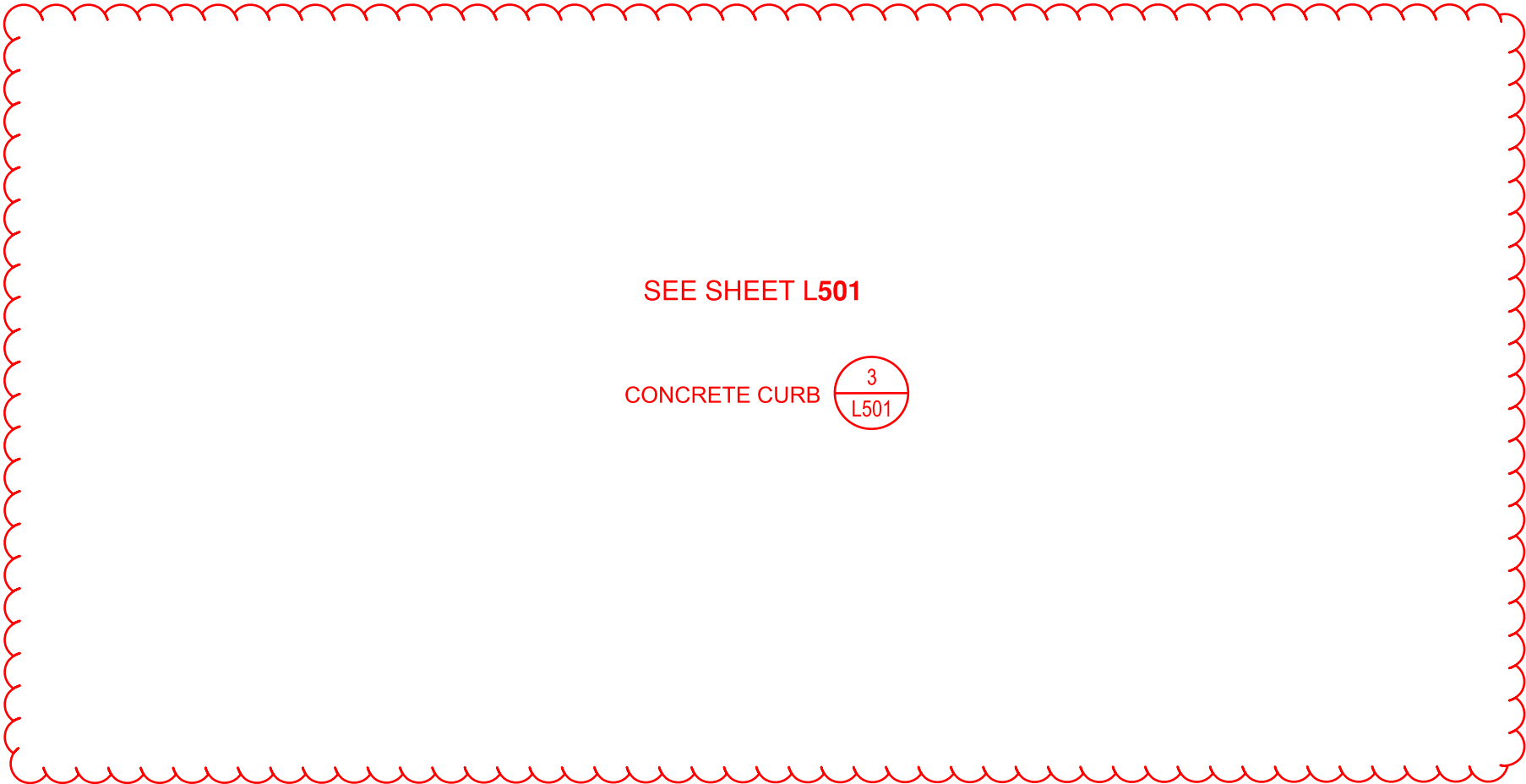
HEAVY DUTY CONCRETE PAVEMENT PAD SECTION

SCALE: NTS



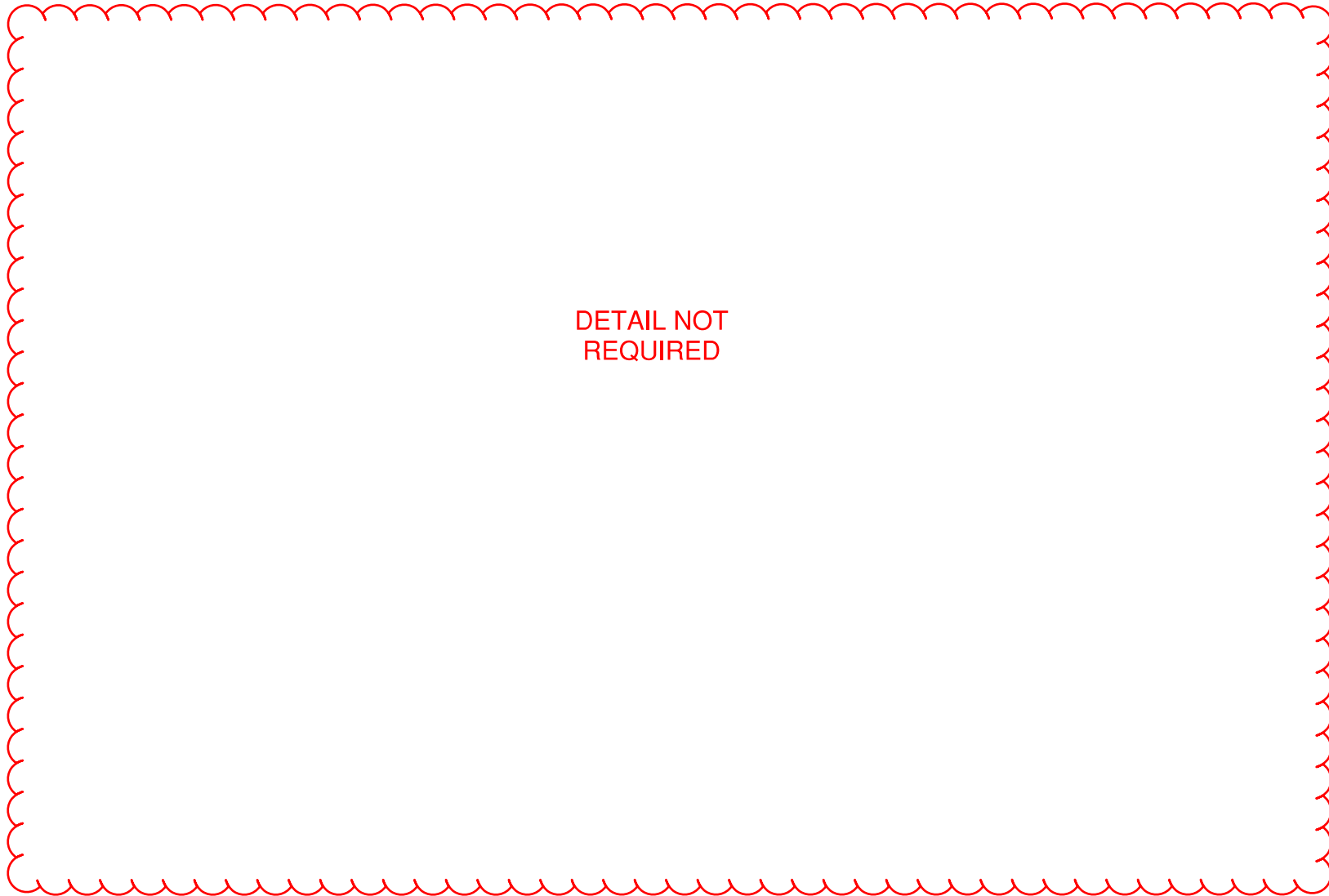
CONCRETE SIDEWALK

SCALE: NTS



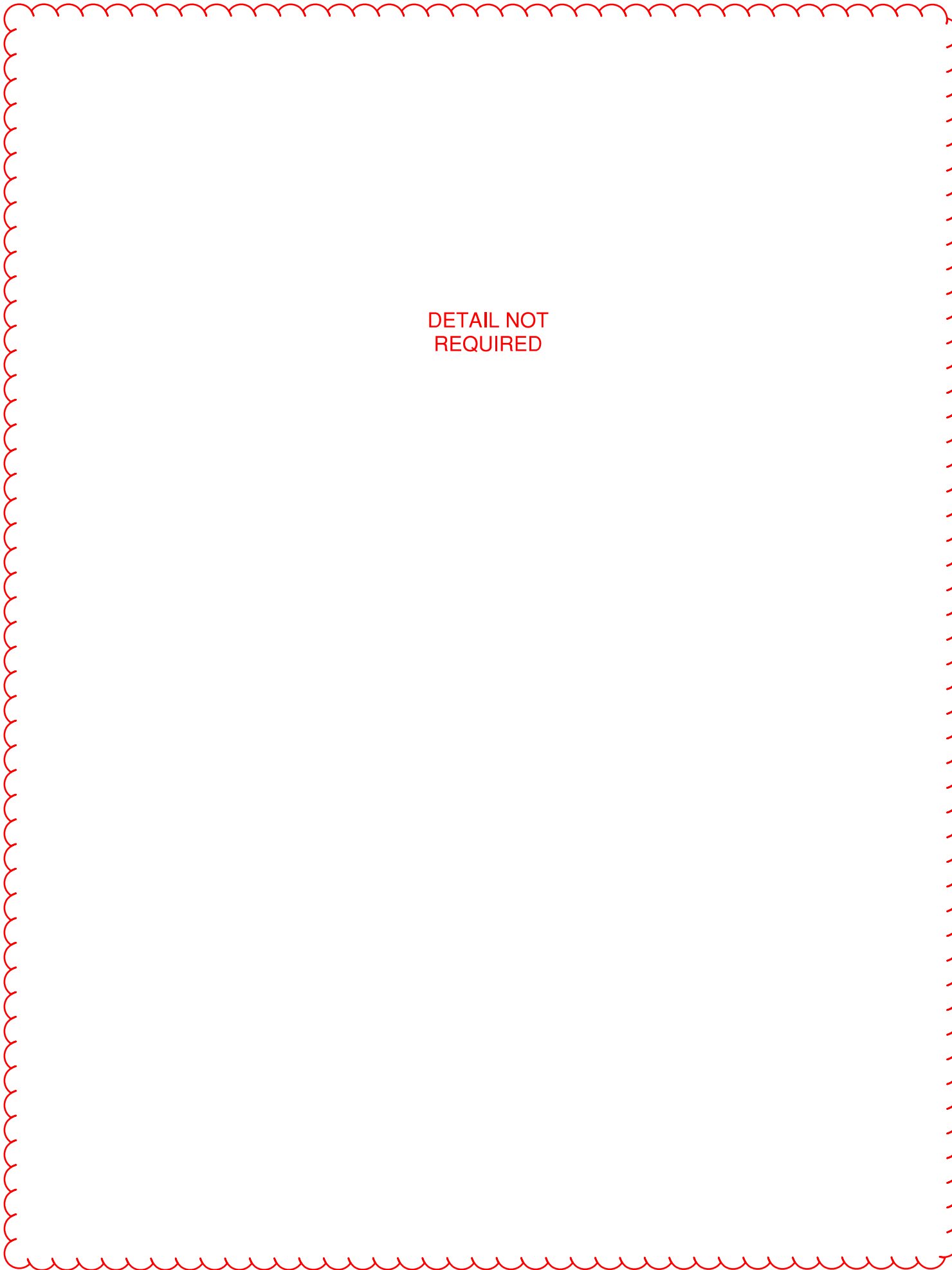
7" REVEAL CONCRETE CURB

SCALE: NTS



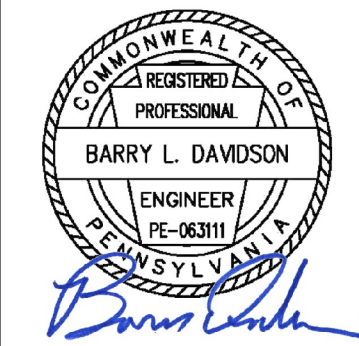
BIKE RACK DETAIL

SCALE: NTS



BOLLARD DETAIL

SCALE: NTS



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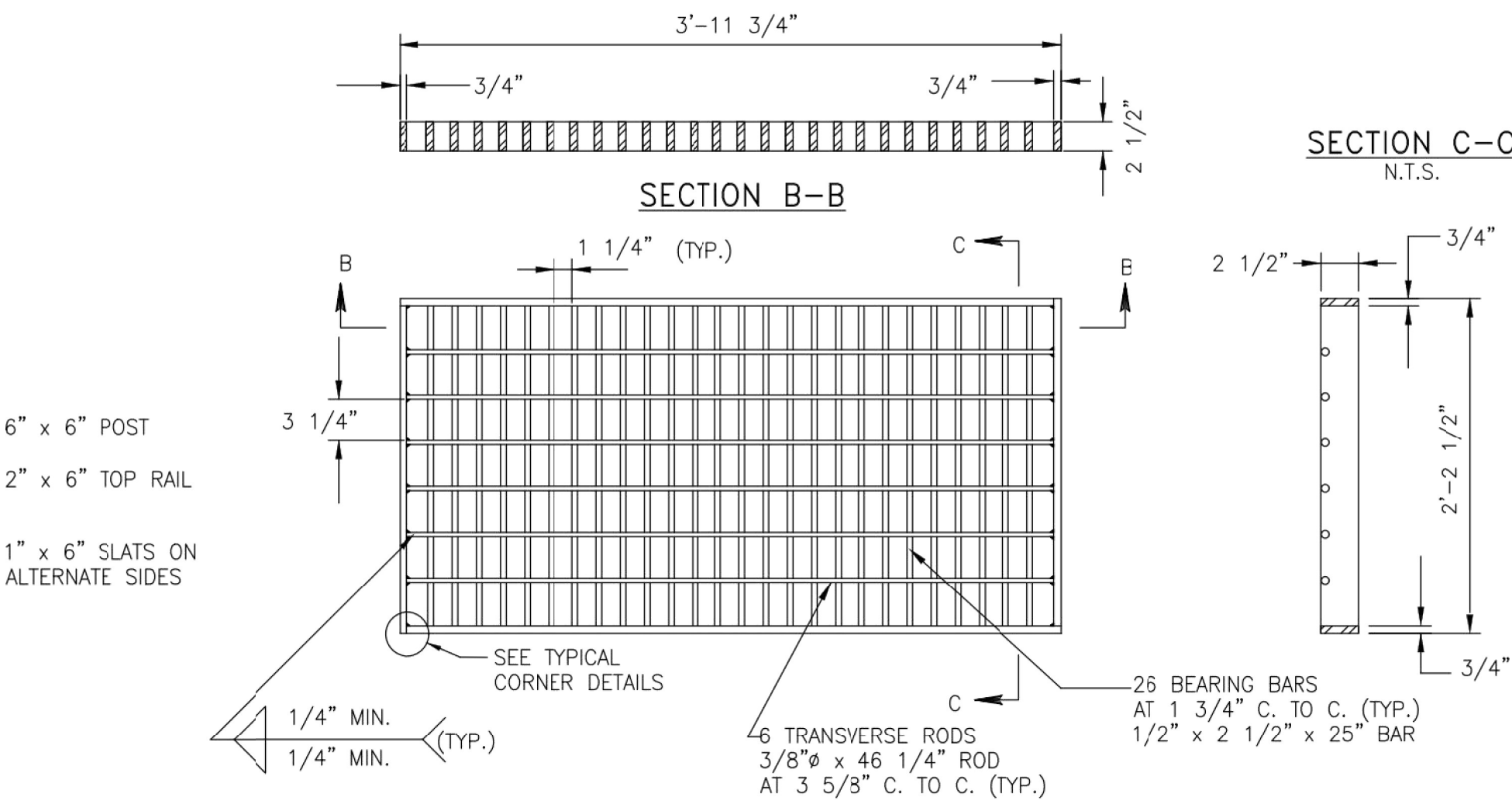
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CONSTRUCTION DETAILS		HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214		REVISED FOR ADDITIONAL CLARITY (6/26)			

SHEET NUMBER:

C501

1 TYPE "M" INLET DETAIL
C502 SCALE: N.T.S.



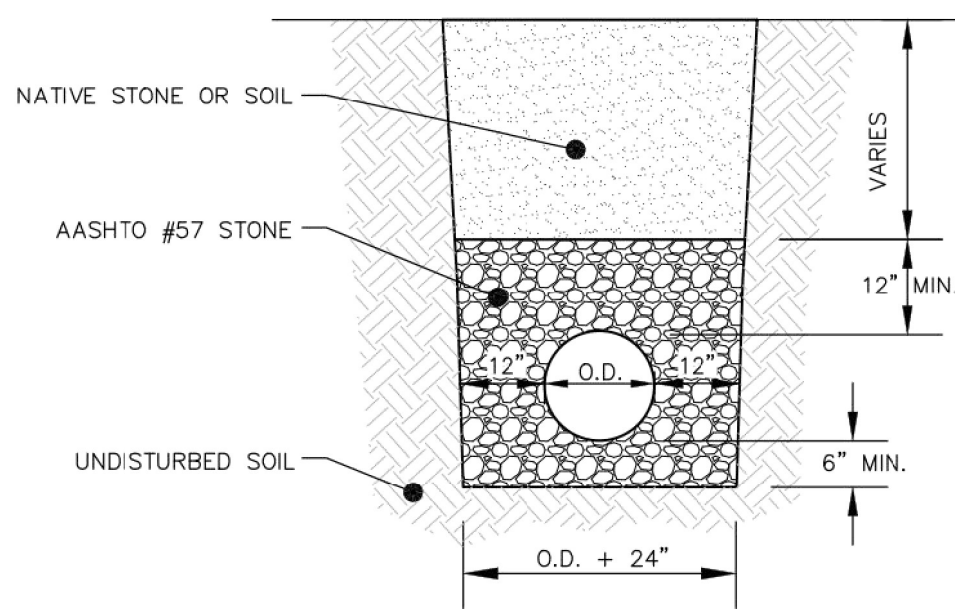
GRATE NOTES:

- THIS DETAIL DEPICTS THE DIMENSIONS REQUIRED FOR UNIFORMITY AND INTERCHANGEABILITY. IT DOES NOT INCLUDE DETAILS REQUIRED FOR FABRICATION OR MANUFACTURING. ONLY GRATES SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15 SHALL BE PERMITTED.
- WELD STRUCTURAL STEEL GRATES IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 1105.03(R).
- PROVIDE TRANSVERSE BARS, MEETING THE REQUIREMENTS OF PUBLICATION 408.
- FABRICATE SLOTS BY BURNING, DRILLING, SHEARING OR PUNCHING. HAVE THE BOTTOM OF ALL BURNED OR DRILLED SLOTS CONFORM TO THE SHAPE OF THE ROD.
- PROVIDE STRUCTURAL STEEL GRATES WITH THE GRATE SPACERS LOCATED FLUSH ALONG THE TOP SURFACE OF THE GRATE.

2 STRUCTURAL STEEL GRATE (BICYCLE SAFE)
C502 SCALE: N.T.S.

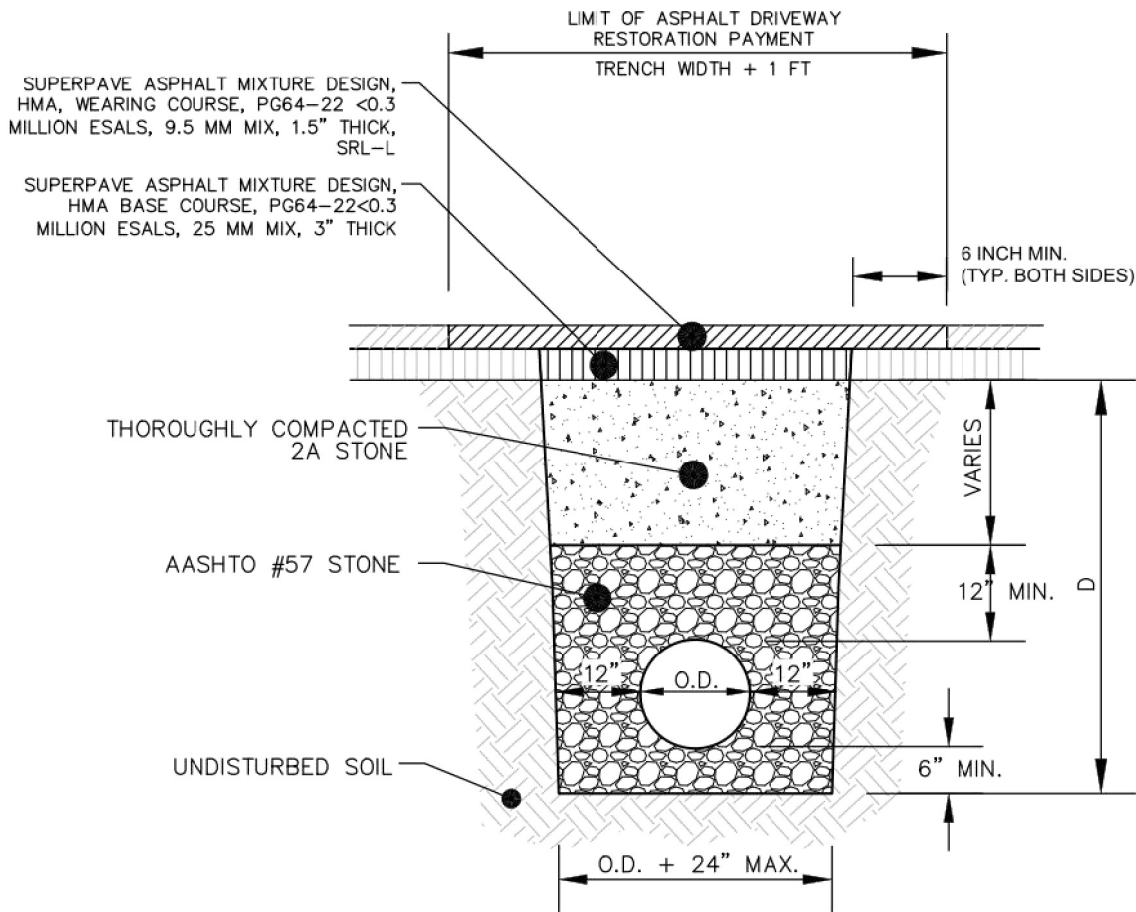
NOTES:

- INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOM SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT THE RATE OF 2" PER FOOT.
- THIS INLET MAY BE CONSTRUCTED OF CAST-IN-PLACE OR PRECAST CONCRETE.
- CASTINGS TO BE BICYCLE SAFE GRATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ADEQUATE BALLAST TO OFFSET FLOTATION FORCES ACTING ON STRUCTURE.
- ALL REINFORCEMENT IS SUBJECT TO ENGINEERS APPROVAL BEFORE CONSTRUCTION.
- ALL PRECAST INLETS SHALL CONFORM TO A.S.T.M. SPEC. C-478, MINIMUM COMPRESSIVE STRENGTH 4,000 P.S.I. AT 28 DAYS. PRECAST SECTIONS SHALL HAVE FLEXIBLE WATER TIGHT RUBBER GASKET IN ACCORDANCE WITH A.S.T.M. DESIGNATION C-361 AND C-443.
- LADDER RUNGS MUST BE NON-SKID PER OSHA STANDARDS.



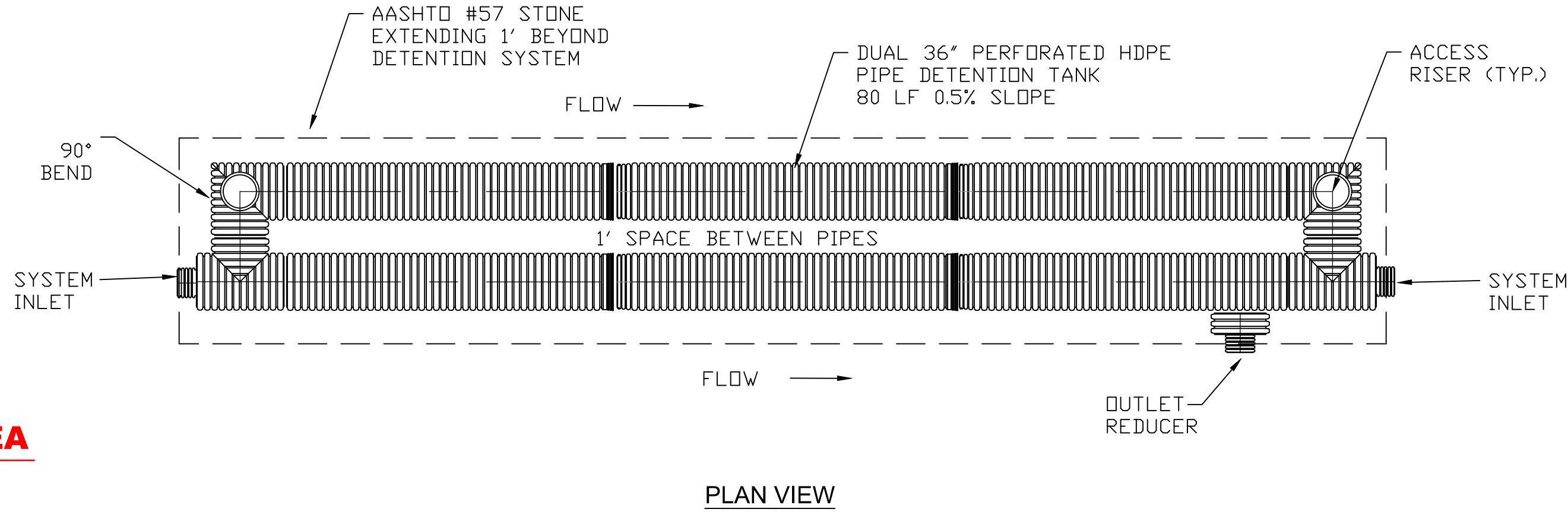
- NOTES:
- O.D. = OUTSIDE DIAMETER

3 PIPE TRENCH DETAIL - UNPAVED AREA
C502 SCALE: N.T.S.



- NOTES:
- O.D. = OUTSIDE DIAMETER

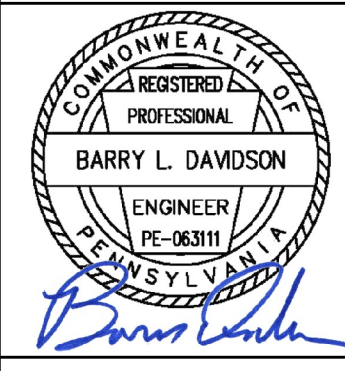
4 PIPE TRENCH DETAIL - ASPHALT PAVING
C502 SCALE: N.T.S.



NOTES:

- ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
- MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321.
- FILTER FABRIC:** A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

5 UNDERGROUND DETENTION SYSTEM DETAIL
C502 SCALE: N.T.S.



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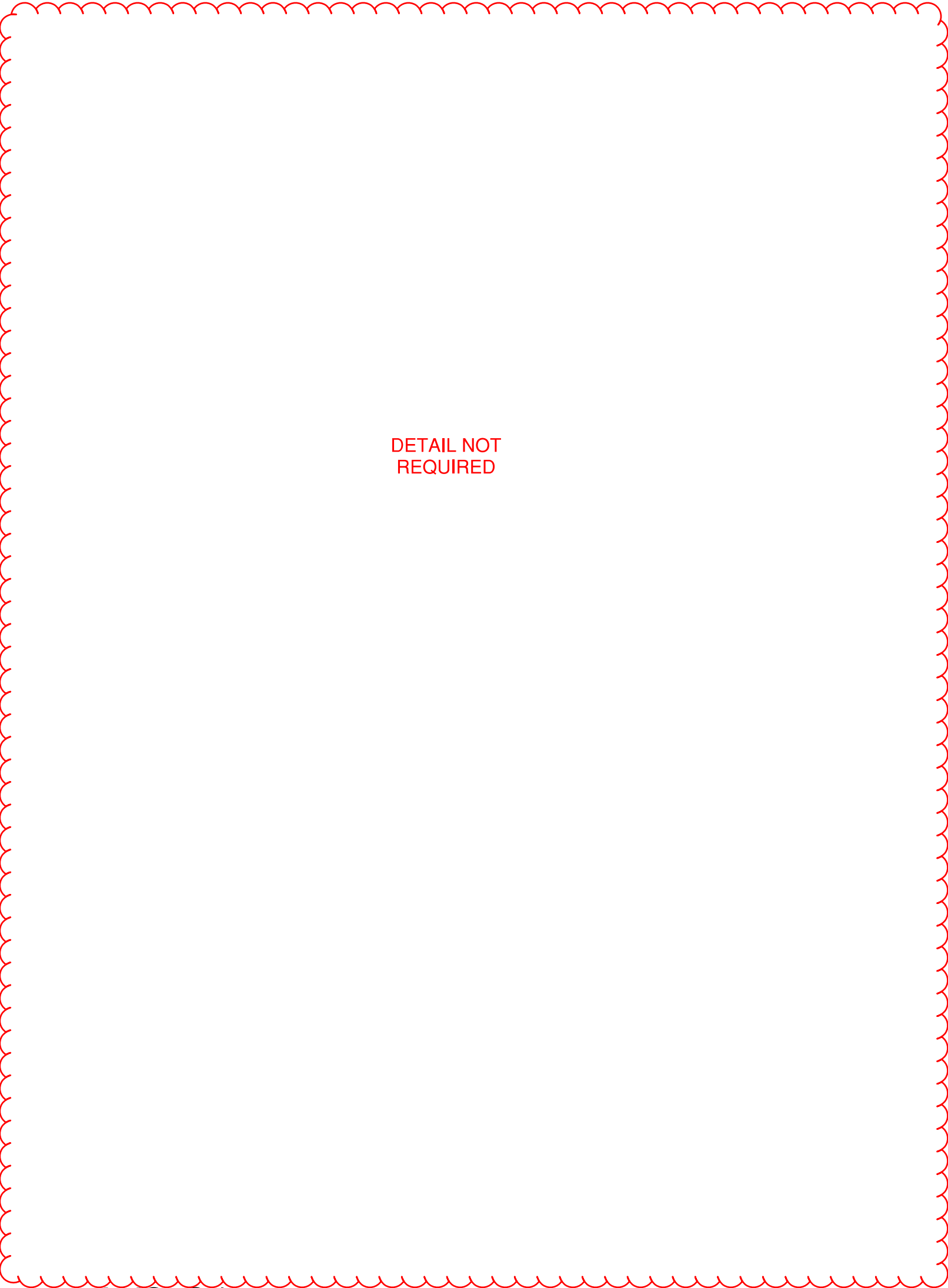
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STORMWATER MANAGEMENT CONSTRUCTION DETAILS
HACP NVH - Family Recreational Area
525Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

C502



DETAIL NOT
REQUIRED

WS-C1
SINGLE SERVICE CONNECTION
(4" AND LARGER)

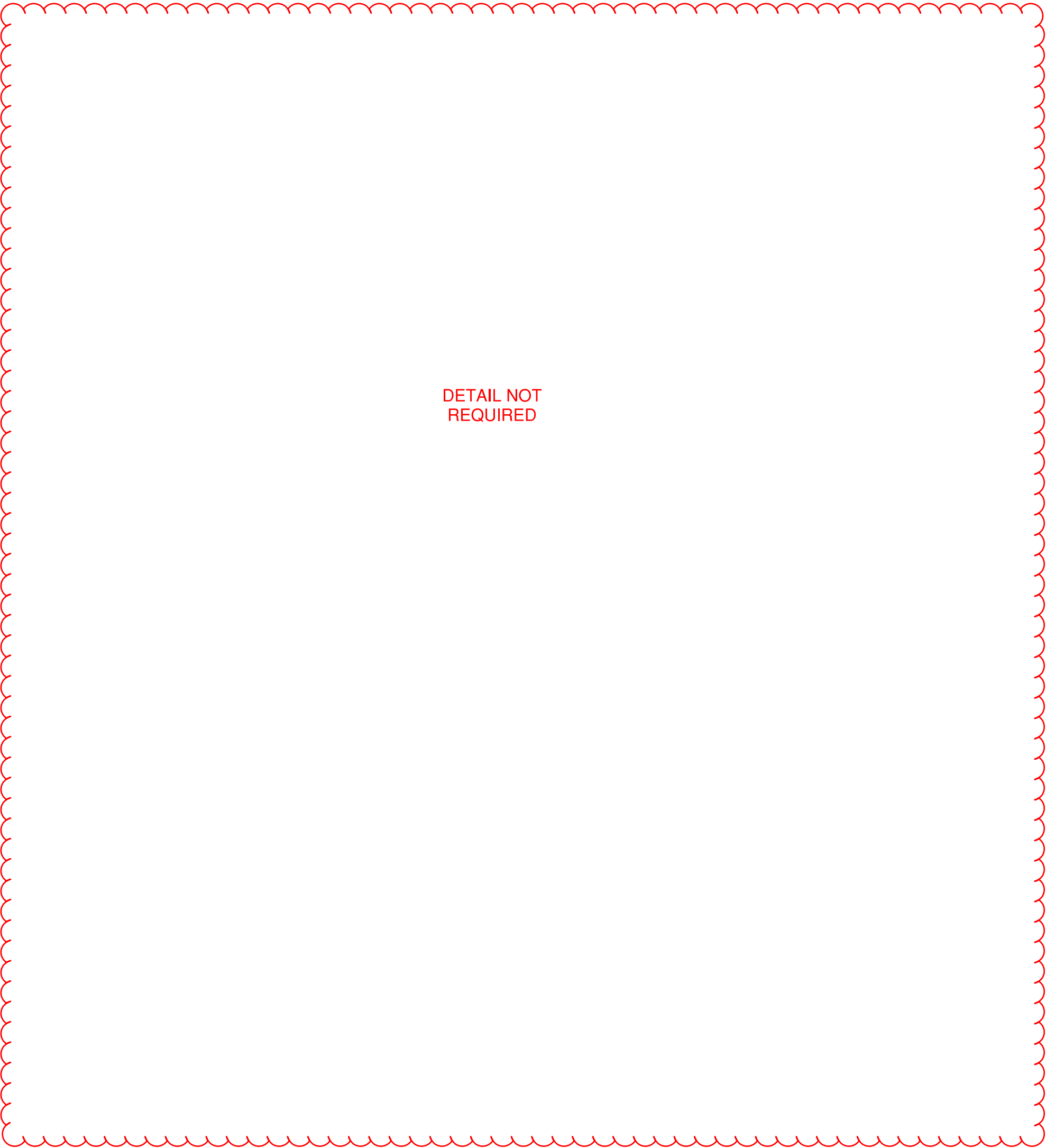
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DETAIL NOT
REQUIRED

WS-3
CONCRETE BLOCKING FOR PRESSURE PIPE

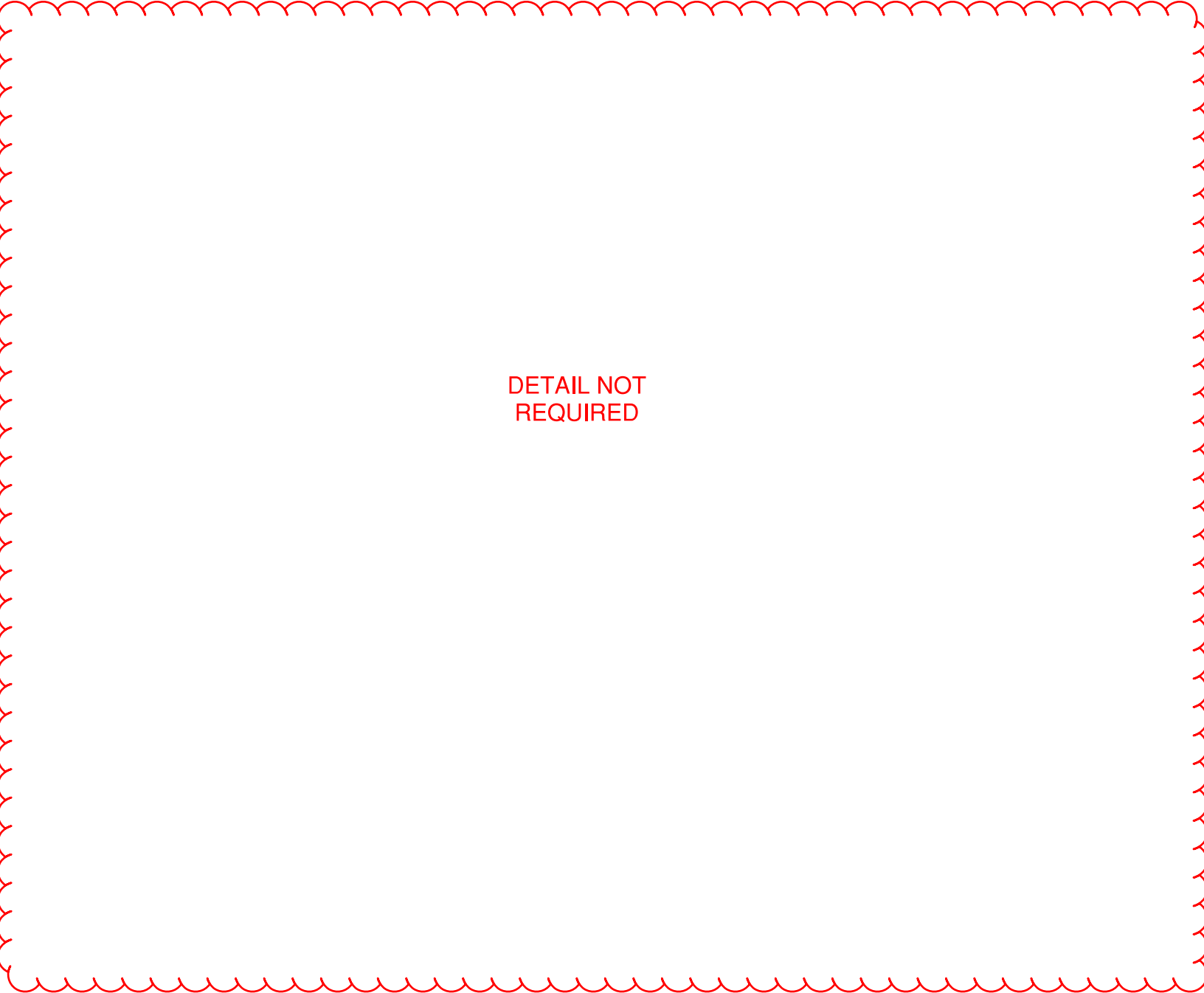
SCALE:NTS



DETAIL NOT
REQUIRED

WS-CTT
CUT-IN TEE AND TAPPING TEE

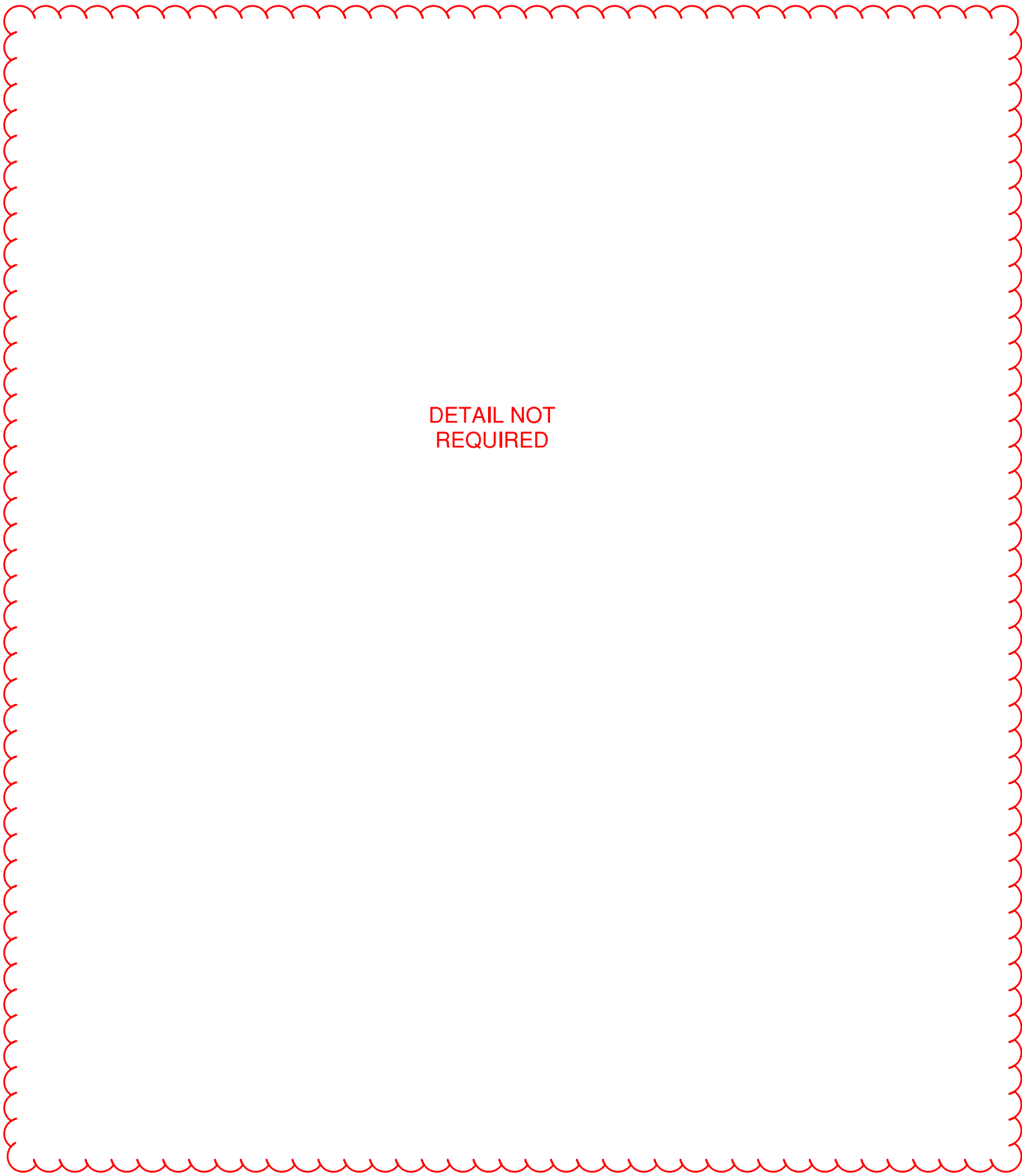
SCALE:NTS



DETAIL NOT
REQUIRED

WS-B
TRENCH REQUIREMENTS FOR 4" THROUGH
12" LIVE WATER TAP

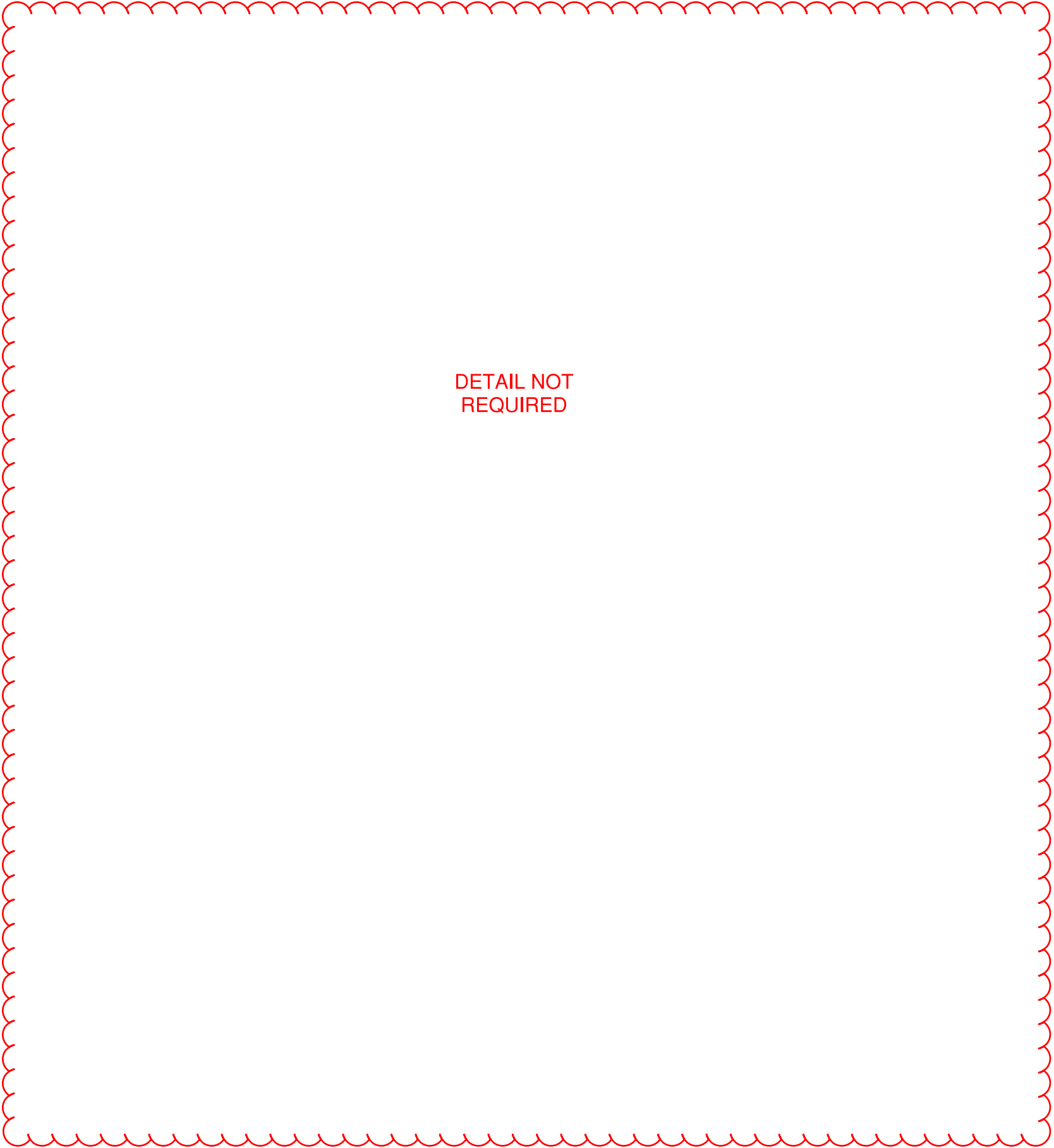
SCALE:NTS



DETAIL NOT
REQUIRED

WS-ST5
TYPICAL WATER TAP SERVICE TERMINATION
FOR 2" AND SMALLER CONNECTION

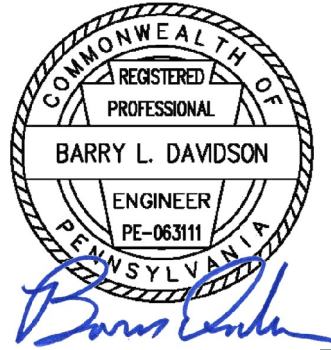
SCALE:NTS



DETAIL NOT
REQUIRED

ST-5
SEPARATED HOUSE LATERAL
FOR 2" AND SMALLER CONNECTION

SCALE:NTS



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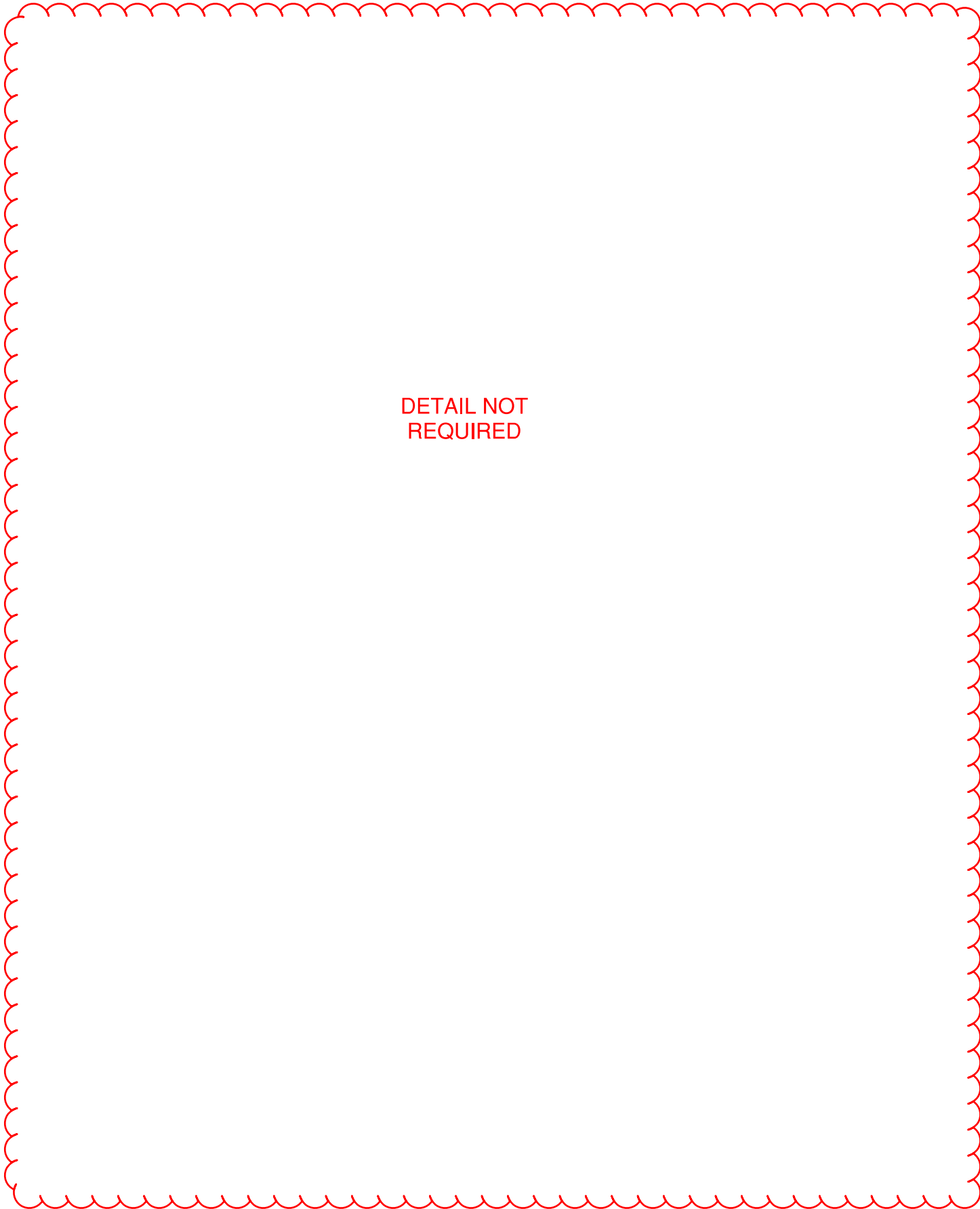
DRAWN BY SJD	CHECKED BY BLD	DATE ISSUED 04-10-2023	DATE PRINTED 04-10-2023
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CONSTRUCTION DETAILS

HACP NVH - Family Recreational Area
525Mt Pleasant Road,
Pittsburgh, PA 15214

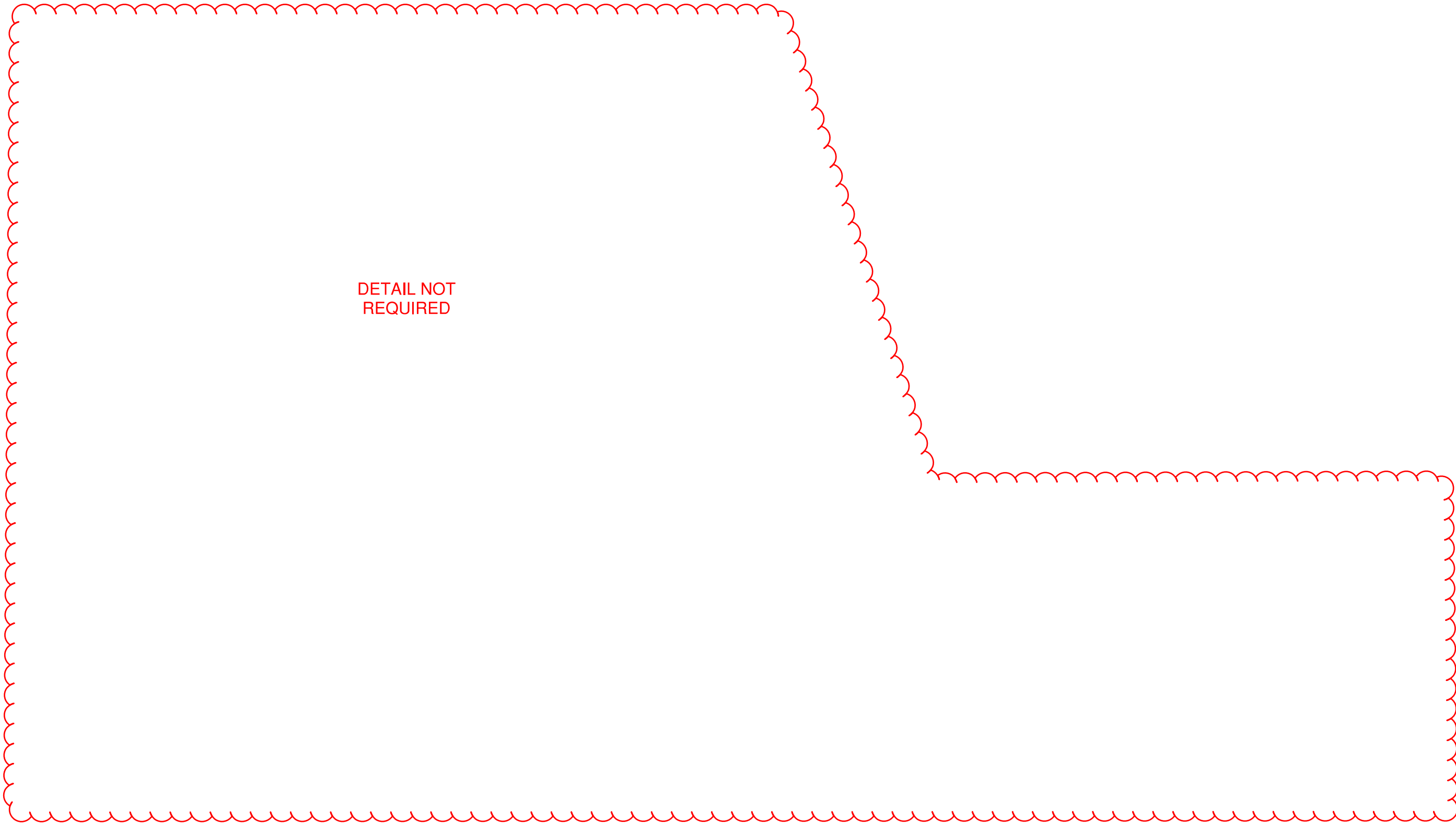
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C503



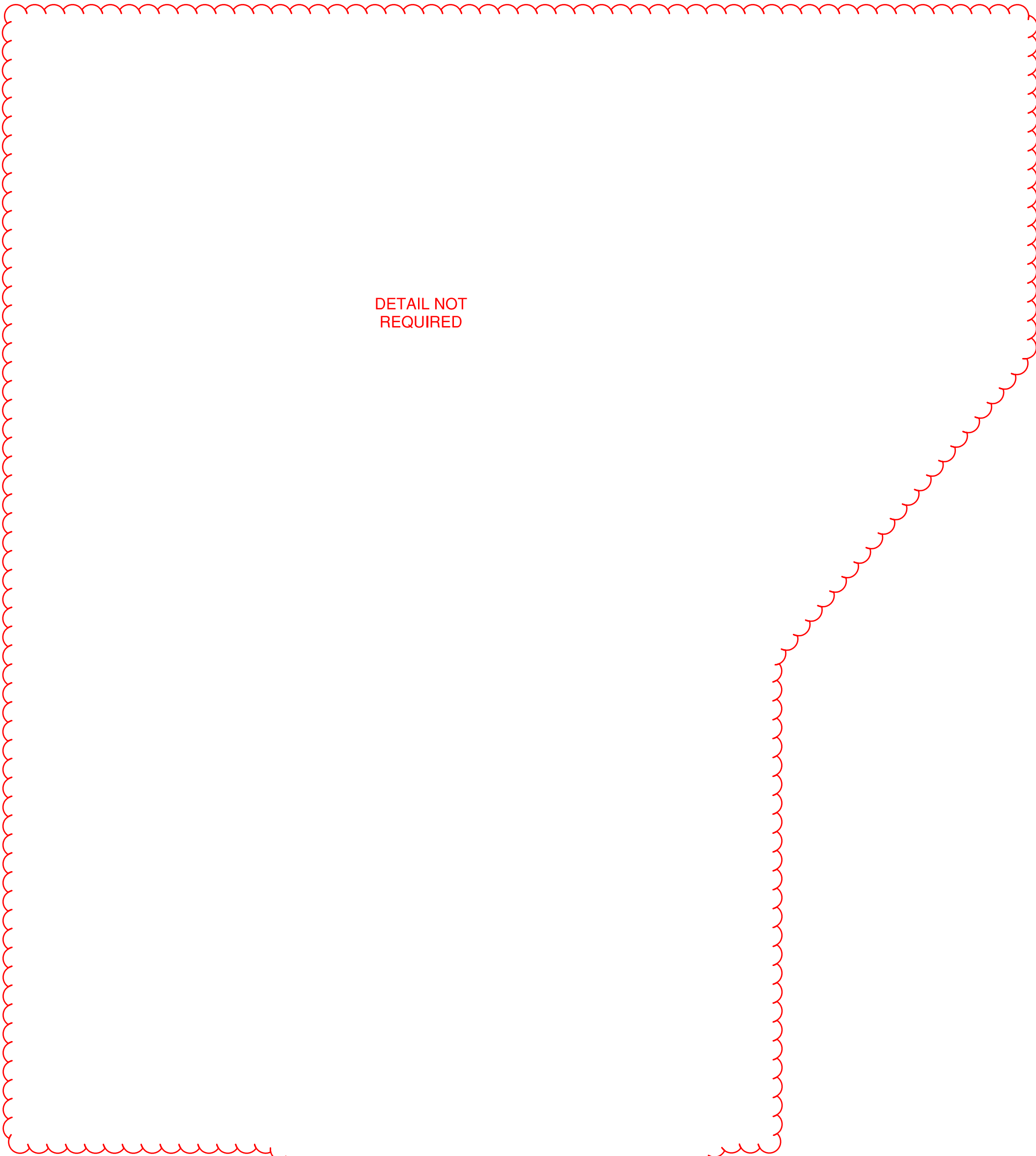
STL1
TERMINATION SEWER LATERAL

SCALE: NTS



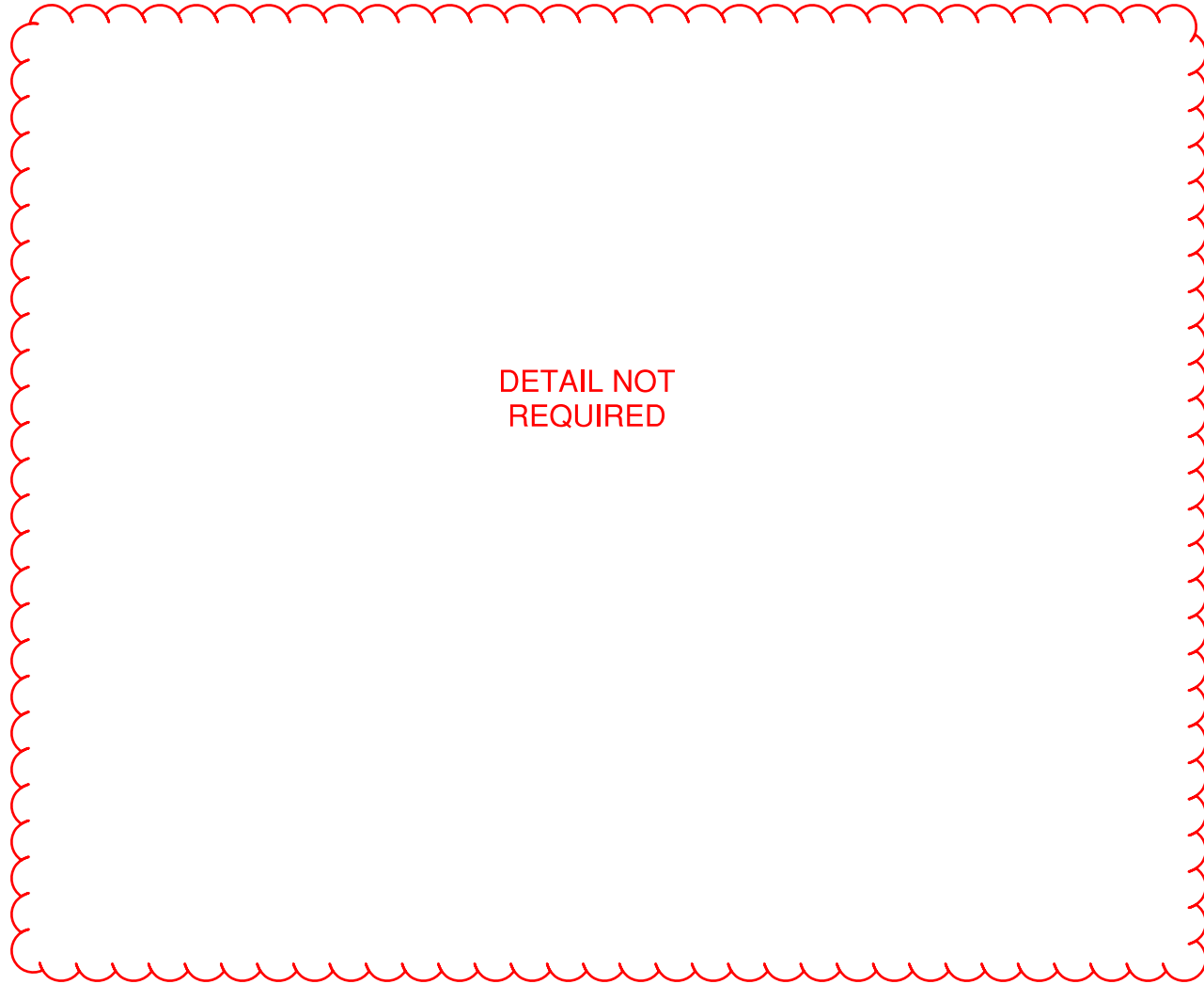
ST-7
CUT-IN WYE PIPE TRANSITION

SCALE: NTS



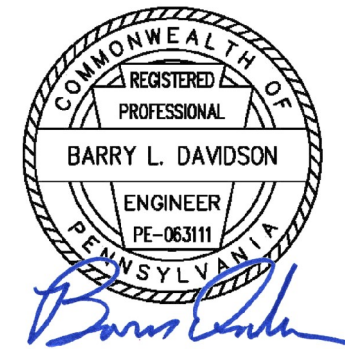
SA-1
SEWER LINE TRENCH AND REPAVING

SCALE: NTS



ST-5
SEPARATED HOUSE LATERAL
ONE CONNECTION TO MAIN

SCALE: NTS



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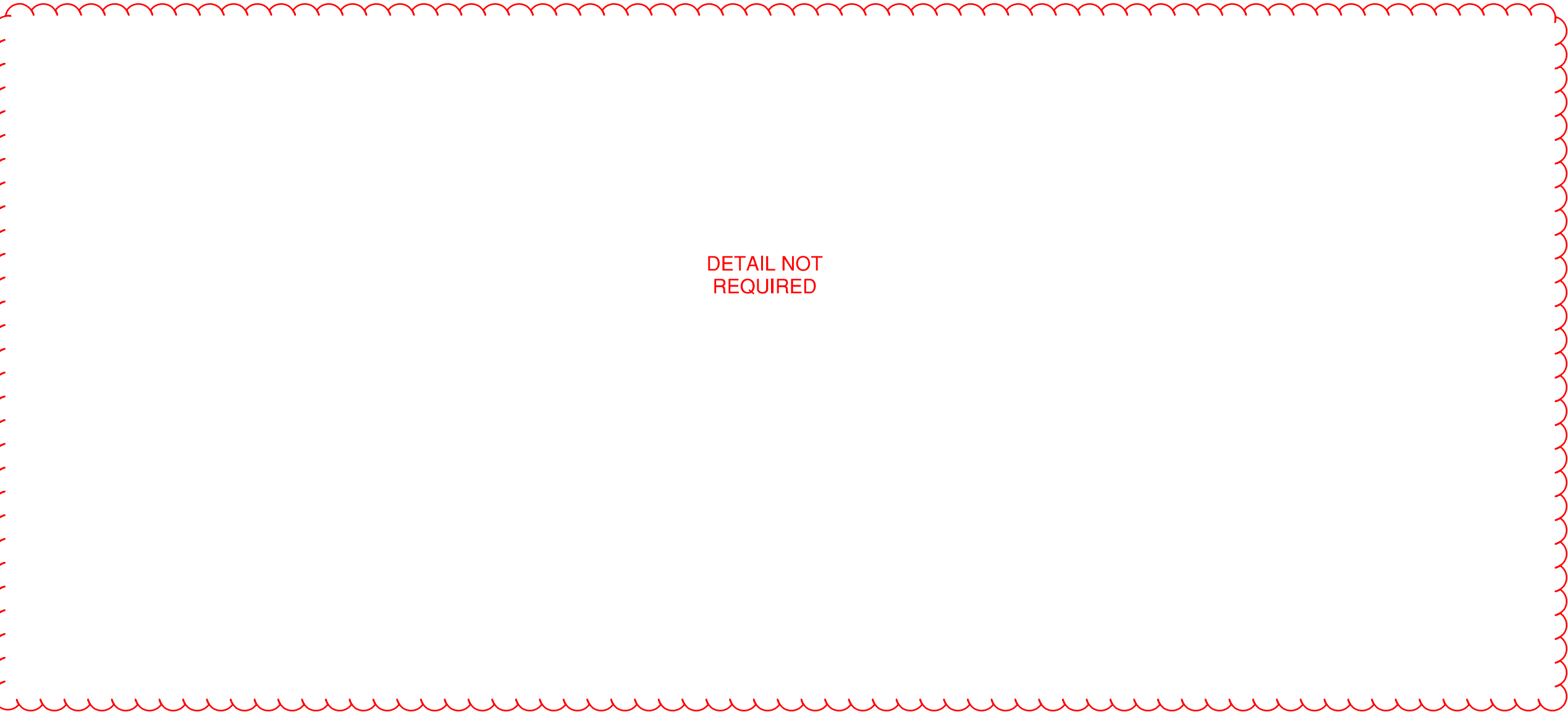
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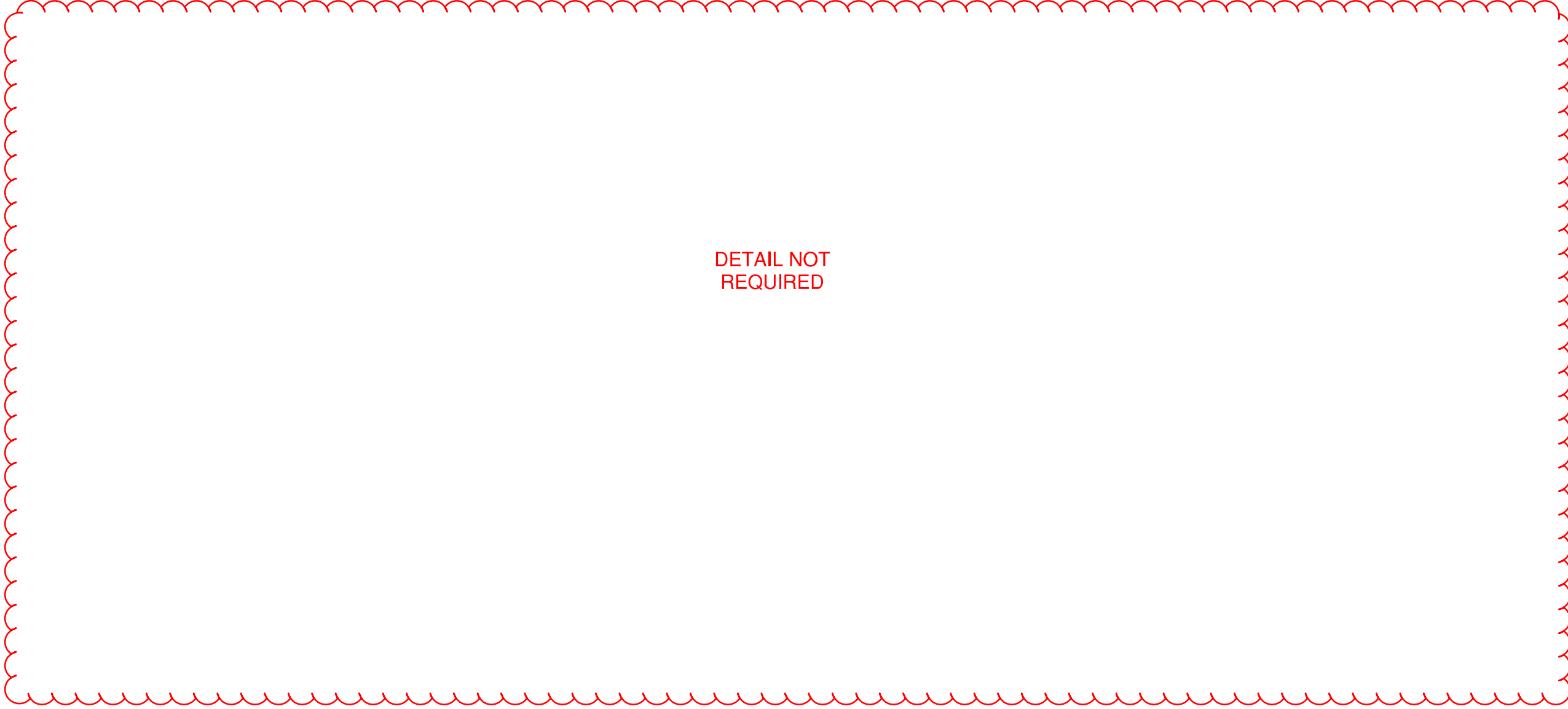
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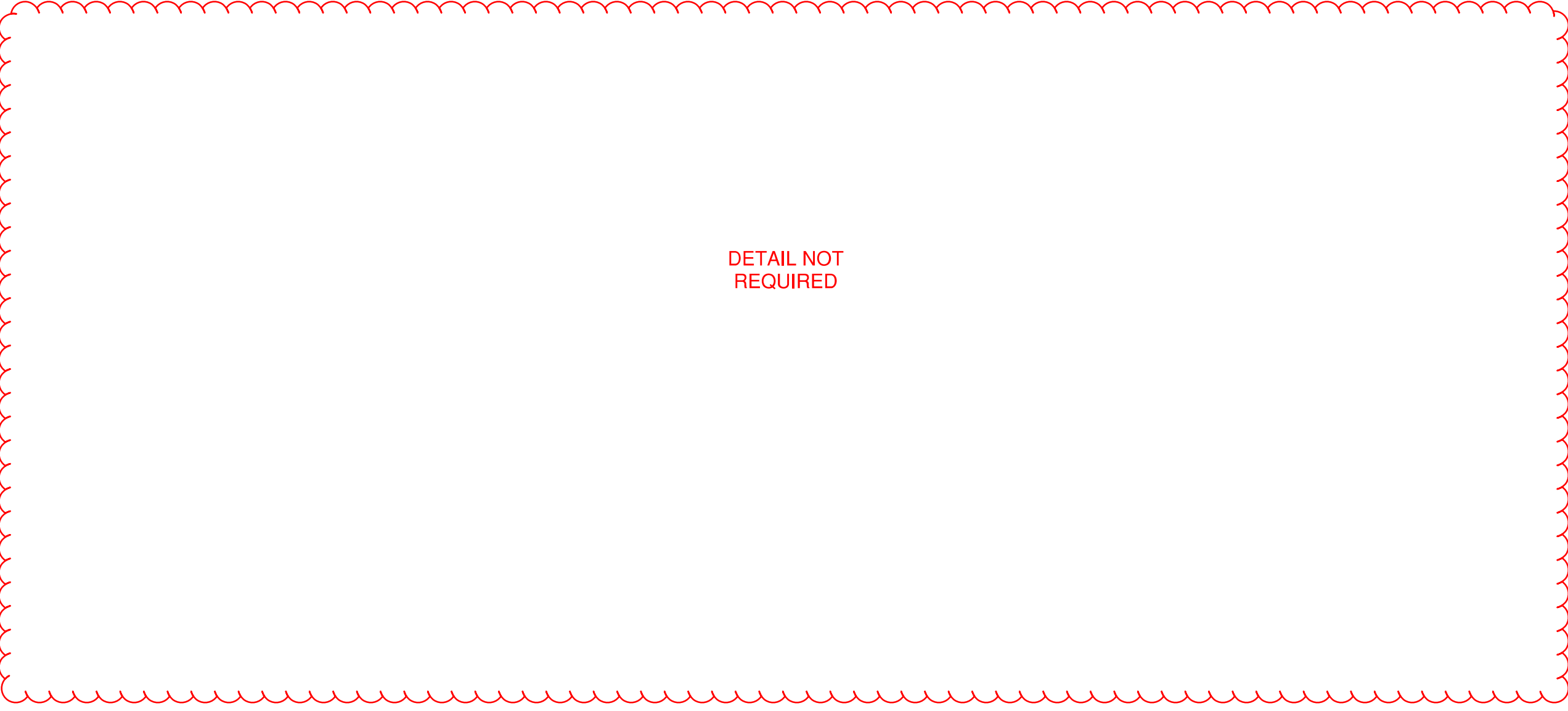
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DETAIL NOT
REQUIRED



DETAIL NOT
REQUIRED



DETAIL NOT
REQUIRED

ELECTRICAL TRENCH DETAILS

SCALE: NTS

SHEET NUMBER:

C506

CONSTRUCTION DETAILS

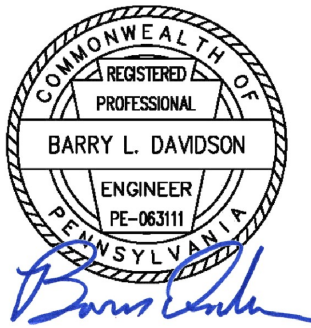
HACP NVH - Family Recreational Area
525Mt Pleasant Road,
Pittsburgh, PA 15214

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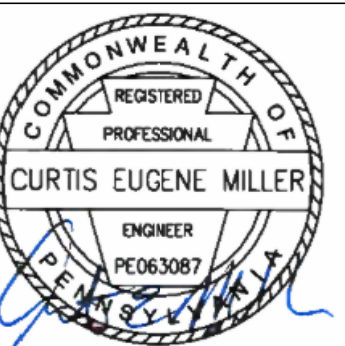
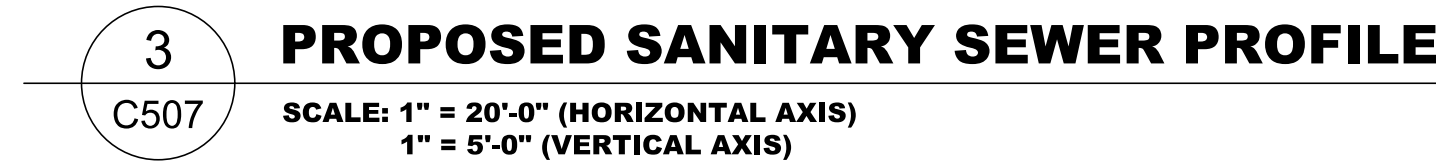
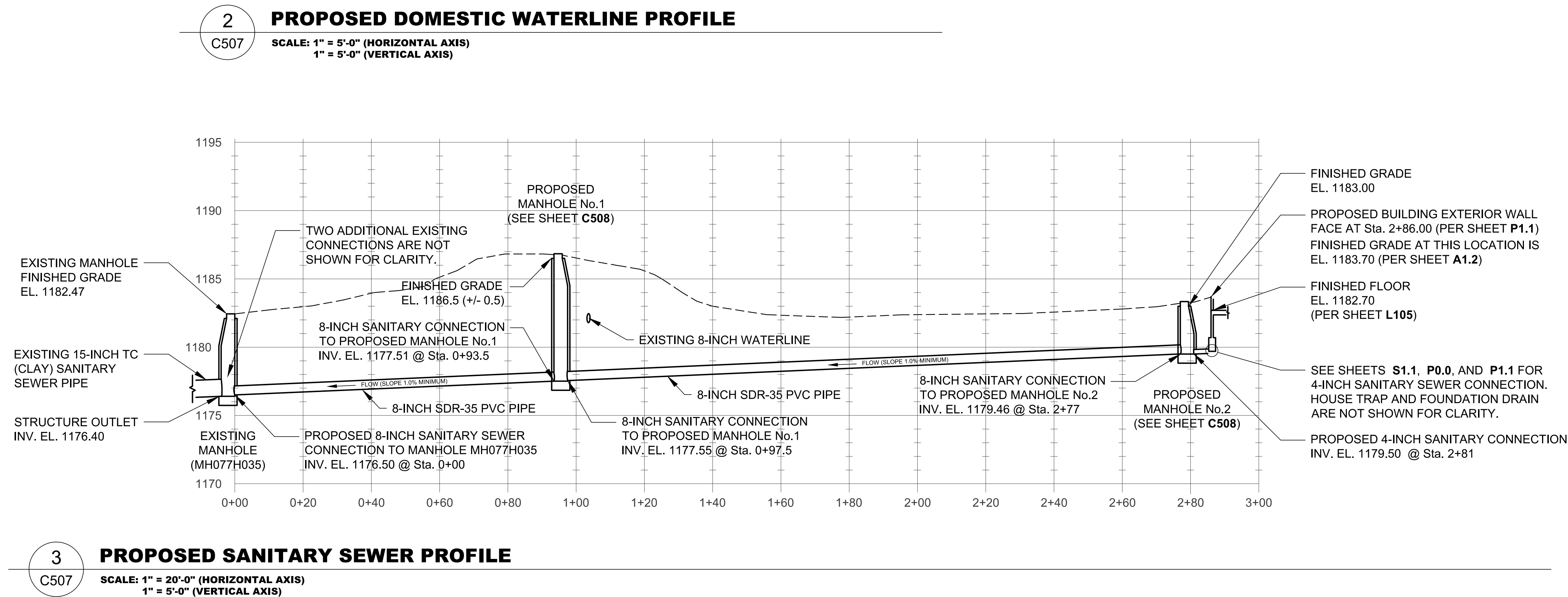
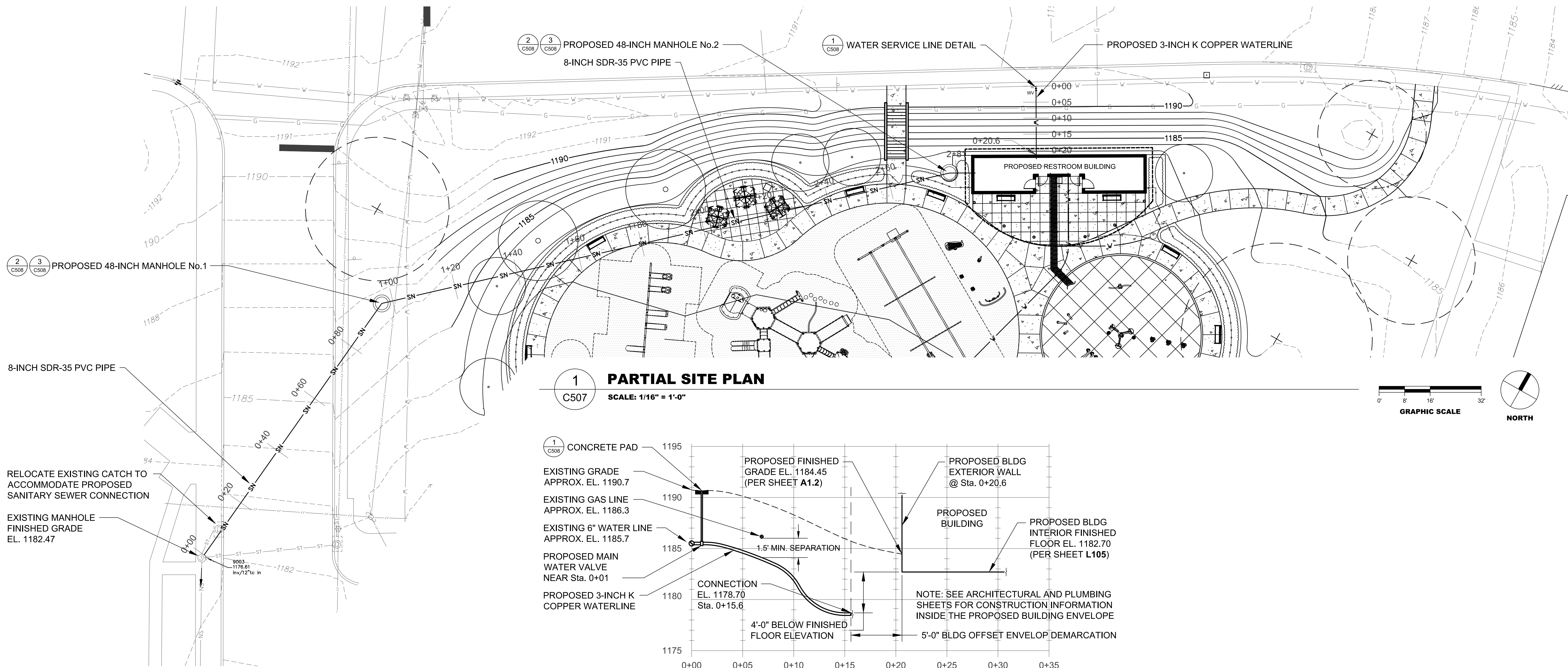
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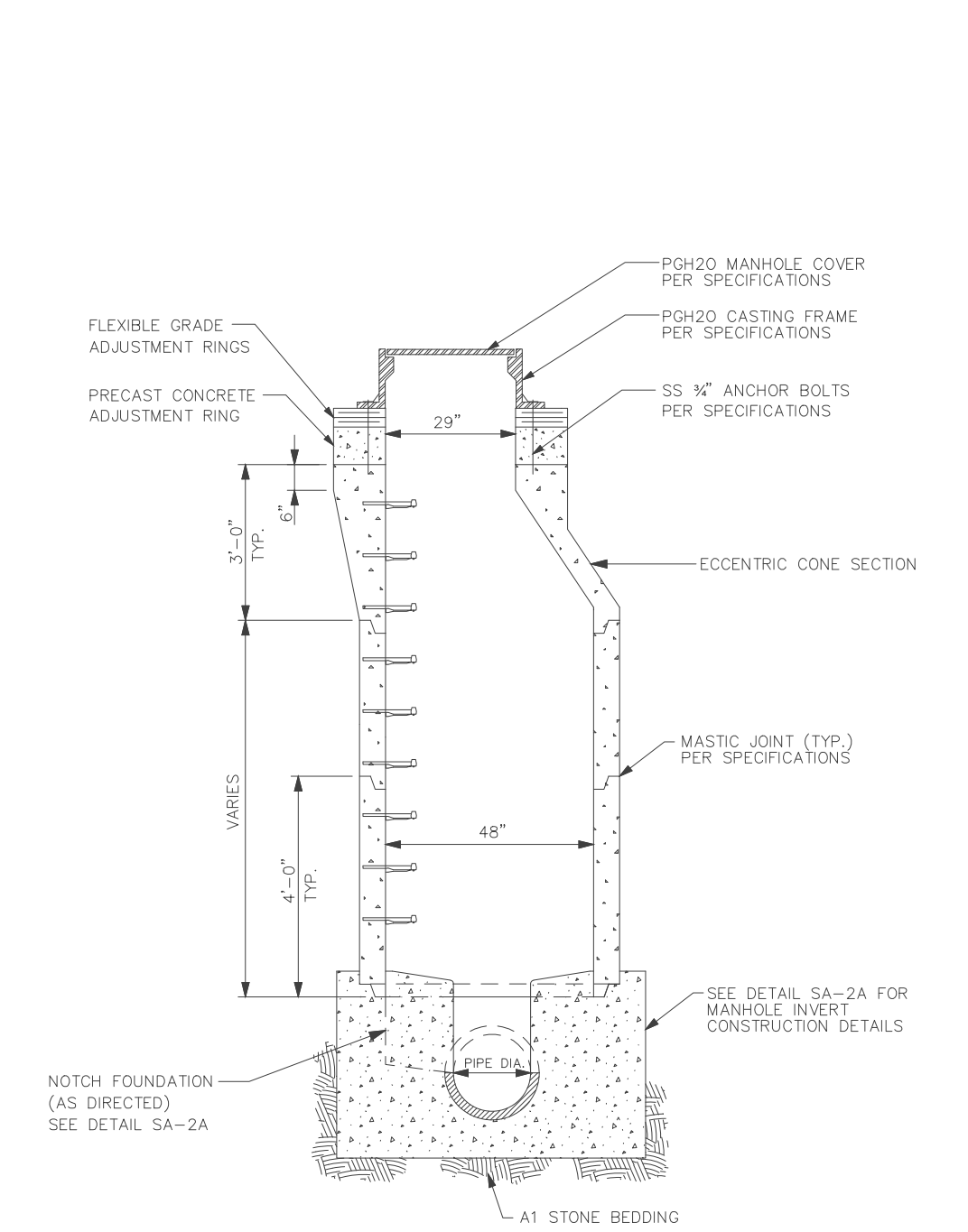
PARTIAL SITE PLAN AND PROFILES
HACP NVH - Family Recreational Area
525Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

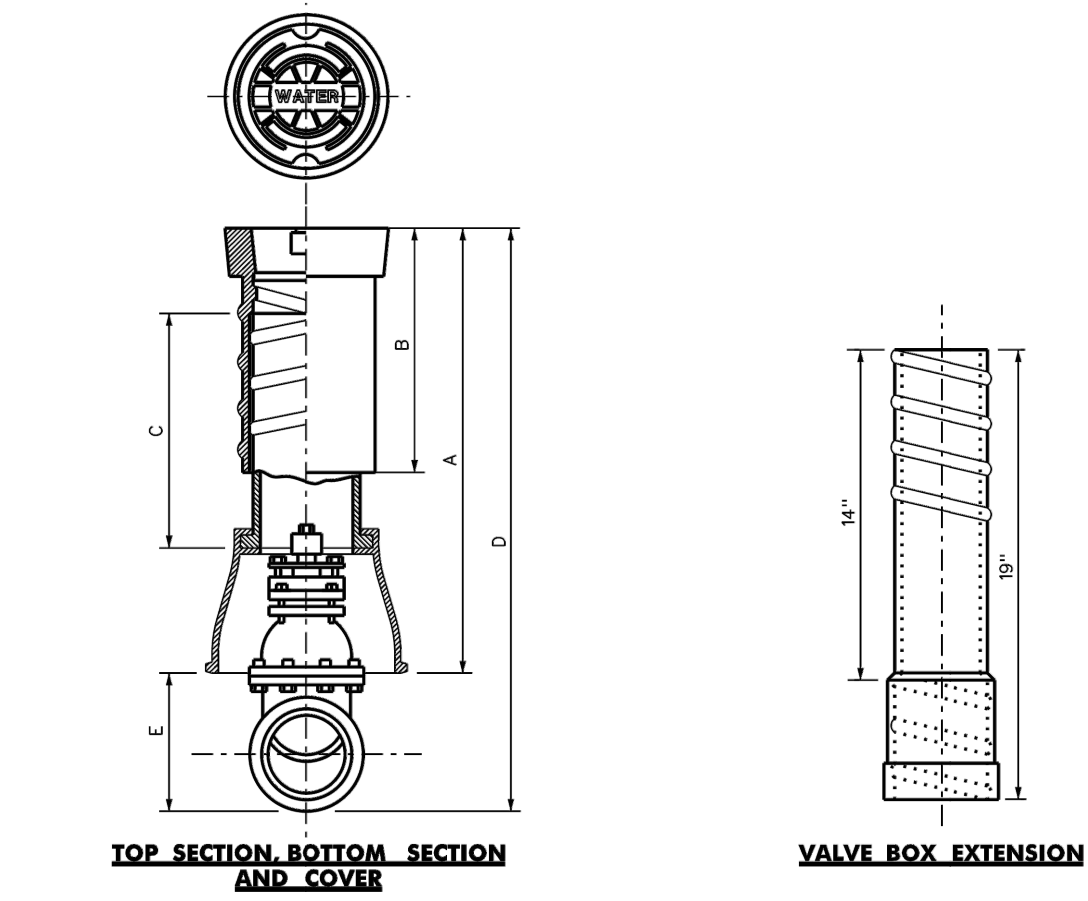
C507

WATER SERVICE LINE DETAIL (WS-5NT2)

SCALE: N.T.S.



- NOTES:
1. ALL FITTINGS SHALL HAVE THRUST BLOCKS (SEE DETAIL WS-3 ON THIS SHEET).
 2. STANDARD GATE BOX LID: TWO NOTCH OPENINGS REQUIRED. DIAMETER TO MATCH BOX.
 3. MEG BOX MATERIAL SHALL BE CAST IRON.
 4. IF MEG BOX IS LOCATED IN AN UNIMPROVED AREA, THEN A 30"x30"x 8"D CONCRETE PAD APRON CENTERED AROUND THE MEG BOX IS REQUIRED.

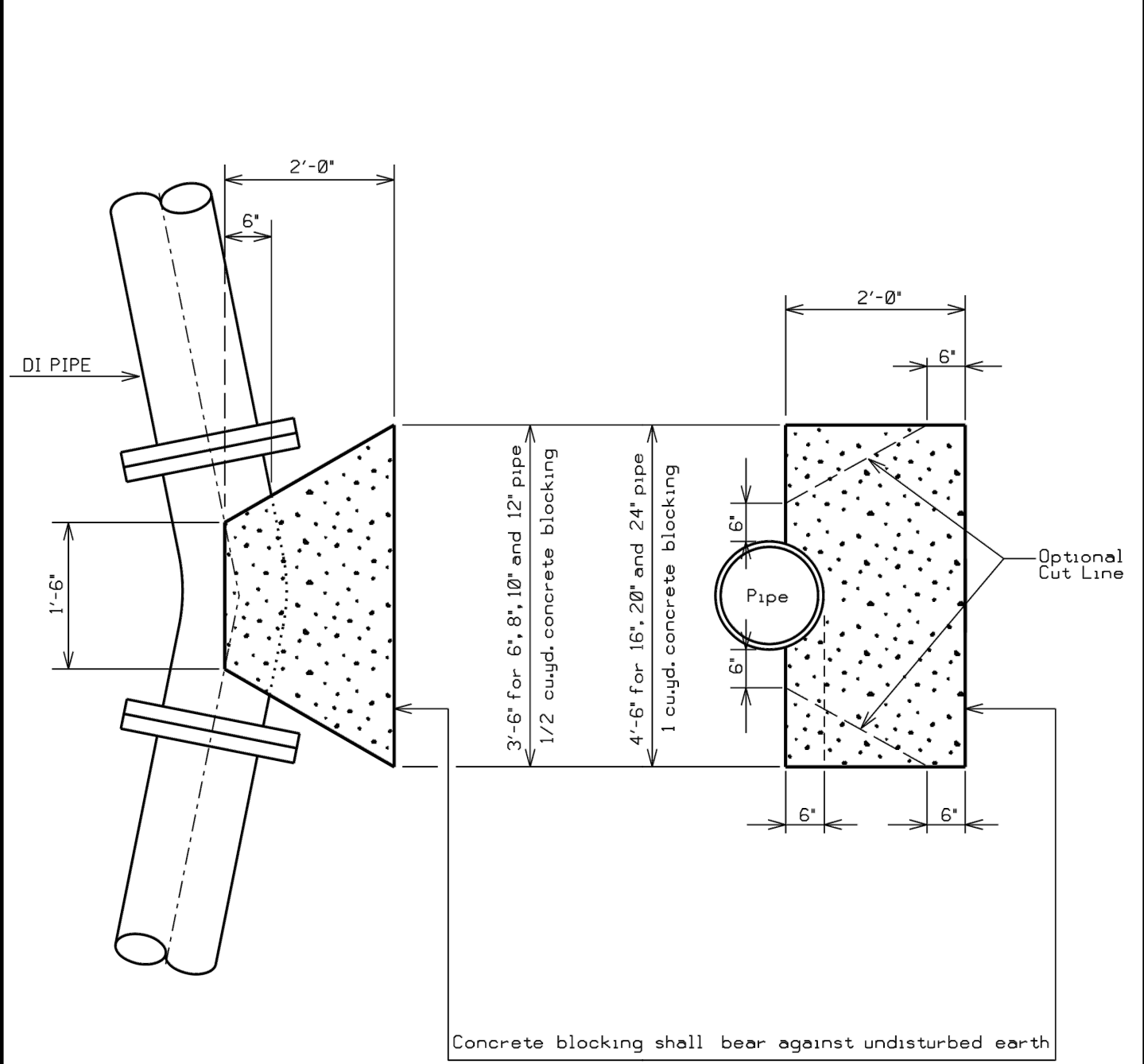


SIZE NO.	EXTENSION RANGE - A	NO.	DIM. B	WEIGHT	NO.	DIM. C	WEIGHT	NO. 6 BASE WT	TOTAL WEIGHT
11	21" - 27"	74	9.00	58.5	80	8.00	14.0	45.0	117.50
I	27" - 39"	75	15.25	81.5	81	14.00	24.5	45.0	151.00
J	33" - 45"	75	15.25	81.5	82	20.00	30.0	45.0	156.50
K	39" - 51"	75	15.25	81.5	83	26.25	41.0	45.0	167.50
L	39" - 60"	76	26.00	111.0	83	26.25	41.0	45.0	197.00

SIZE OF VALVE	BOTTOM BASE TO BOTTOM TRENCH (DIM. E)	No. BASE USED	36"	42"	48"	54"	60"	66"	72"	78"	84"
3	8"	4	11	1	J	K	L	L	L*	L*	0*
4	13-1/2"	4	11	1	J	J	K	L	L	L*	L*
6	15"	6	11	11	J	J	K	L	L*	L*	L*
8	19"	6	11	1	J	J	K	L	L	L*	L*
10	24"	6			11	1	1	K	K	L	L
12	31"	160					11	1	J	K	L
14	36-1/2"	160						11	1	J	K
16	41-1/4"	160							11	1	J

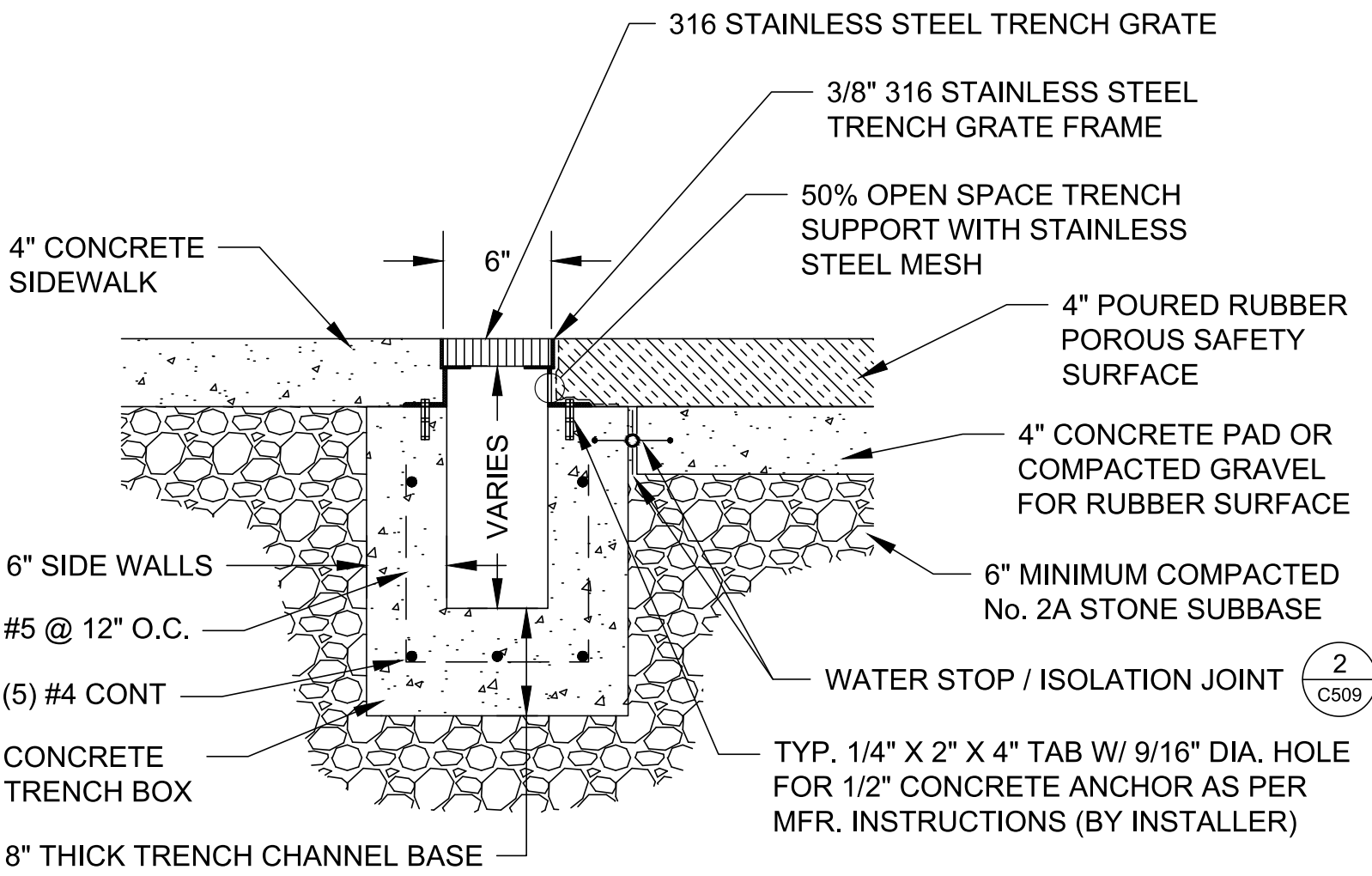
- NOTES:
1. MEDIUM EXTENSION GATE VALVE BOX SHALL BE BINGHAM & TAYLOR No. 5001, OR APPROVED EQUAL.
 2. MADE OF CAST IRON, SCREW TYPE, 3-PIECE BOX W/ LID AND #6 BASE, 7" DIAMETER SHAFT.
 3. LABELED "WATER" ON THE COVER.

PITTSBURGH WATER	Pittsburgh Water	Scale: N.T.S.	Supplemental Detail Drawing: WVB
PGH20	Valve Box (Medium Extension Gate Box)	W:\pww\gs\std\5\Standards\stds3.dat	

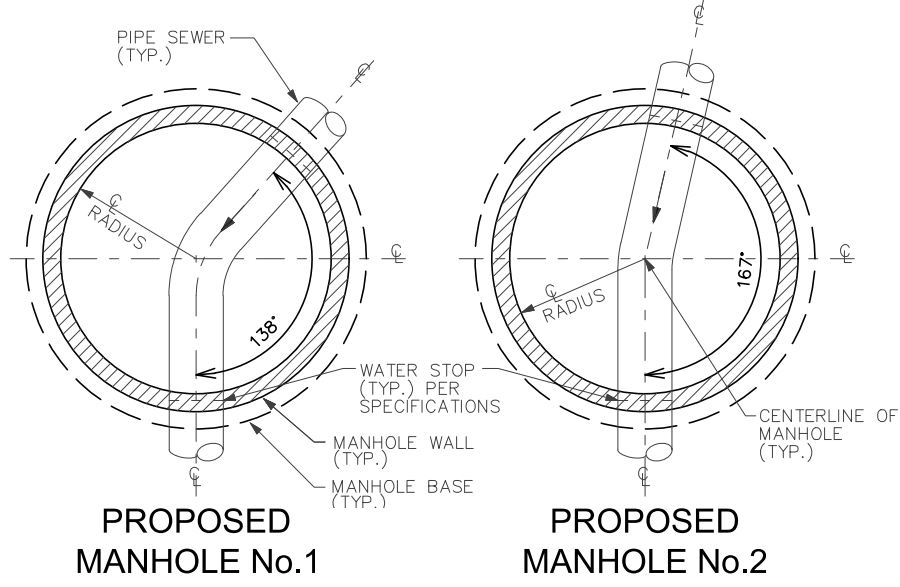


- NOTES:
1. Concrete thrust blocking shall be provided at all tees, bends, caps, and plugs. In addition, all pipe bends shall be harnessed with mechanical joint retainer glands, using either set screw or lug type retaining system, as directed.
 2. Concrete thrust blocks shall be minimum 4000 PSI cement concrete.
 3. See detail WS-VB and WS-VBL for vertical bends requirements.

PITTSBURGH WATER	Pittsburgh Water	Scale: N.T.S.	Supplemental Detail Drawing: WS-3
PGH20	Concrete Blocking For Pressure Pipe	W:\pww\gs\std\5\Standards\stds3.dat	

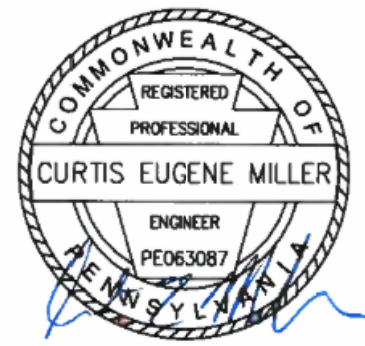


4
C508
PLAYGROUND TRENCH DRAIN DETAIL
SCALE: N.T.S.



3
C508
DETAIL SA-2A (MODIFIED)
SCALE: N.T.S.

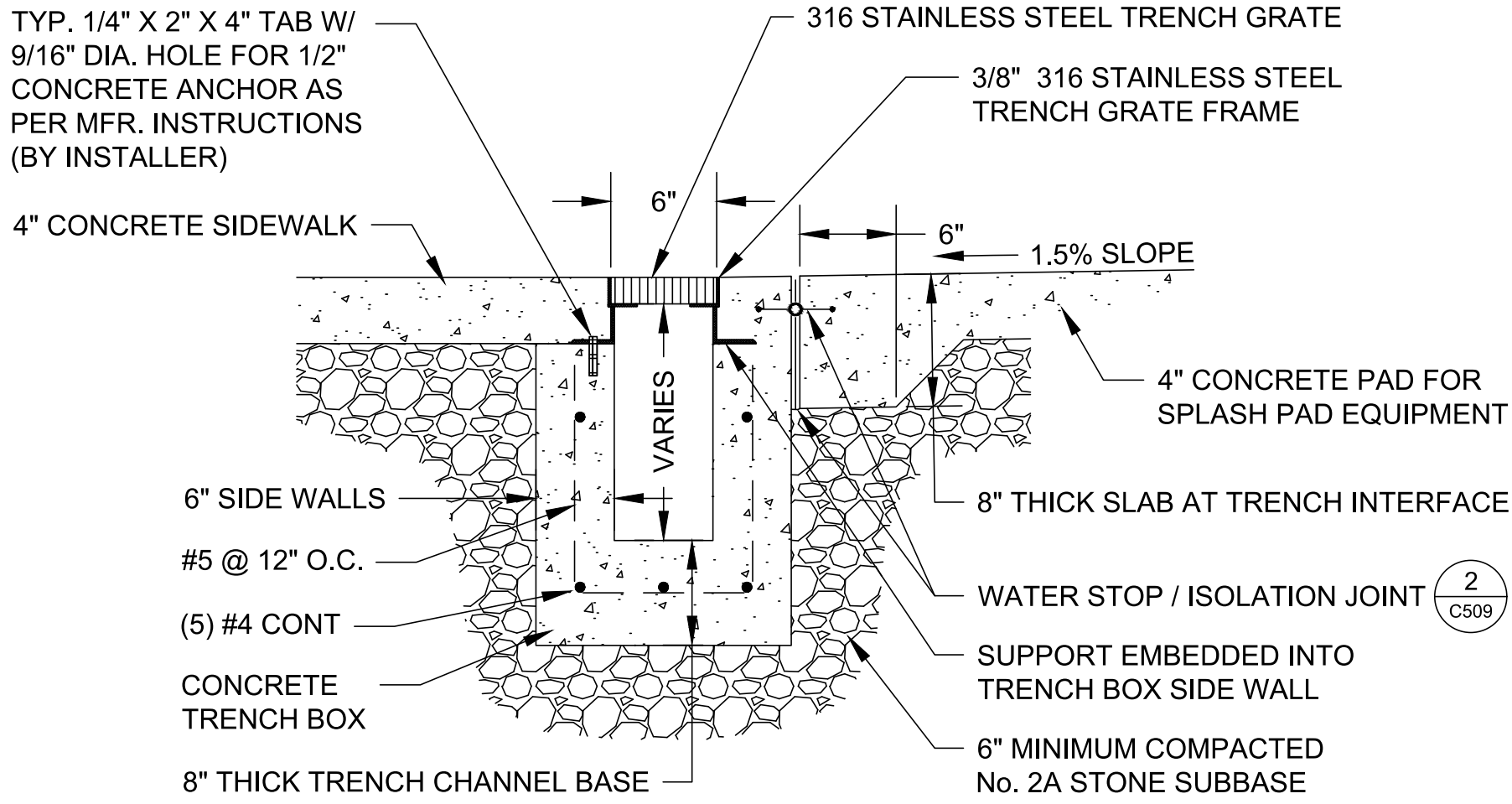
2
C508
48-INCH DIAMETER MANHOLE (SA-2)
SCALE: N.T.S.



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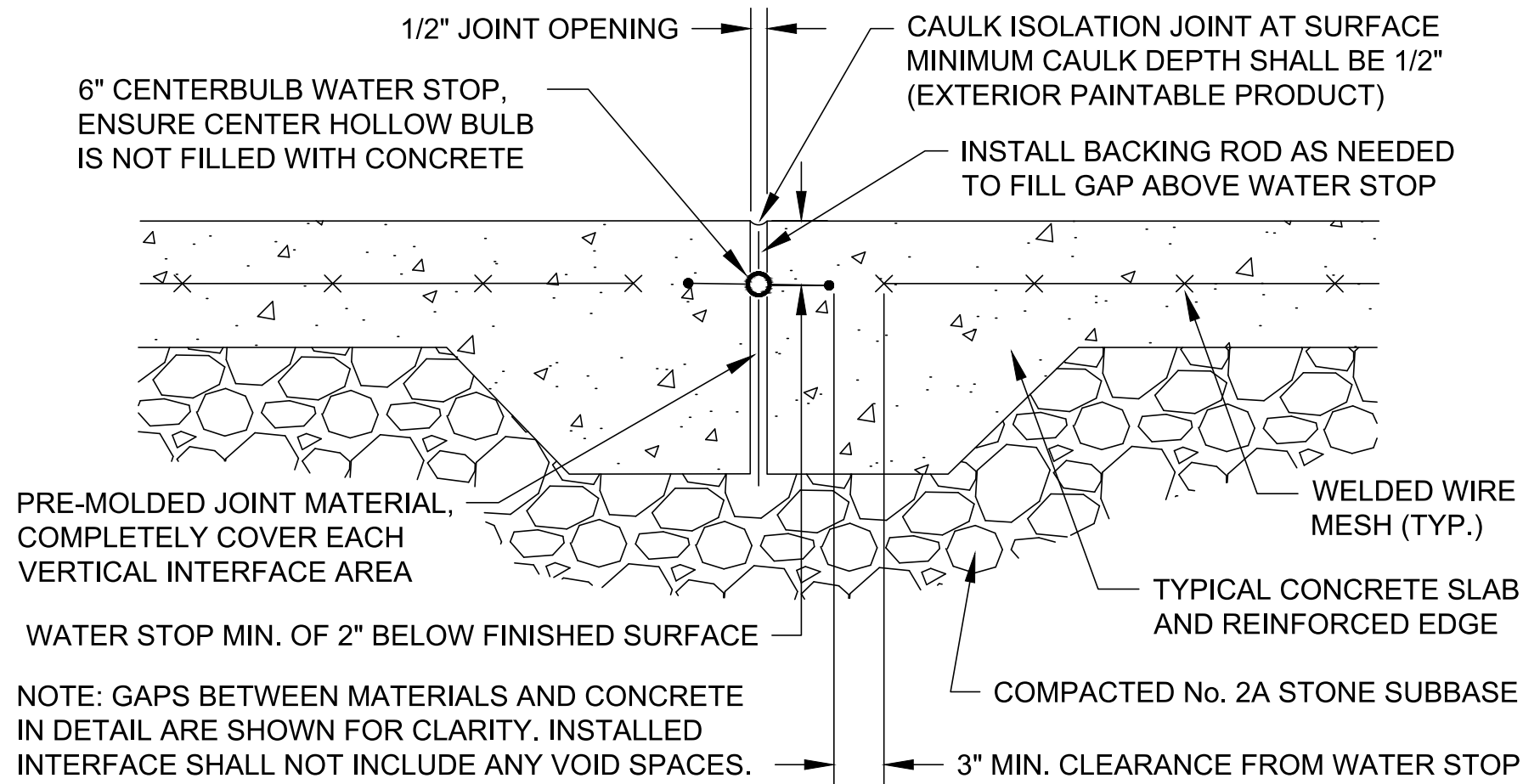
REVISIONS			
DRAWN BY	CHECKED BY	DATE ISSUED	DATE PRINTED
MAS	CEM	07-31-2026	07-09-2026
CONSTRUCTION DETAILS I			
HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214			
SHEET NUMBER:			
C508			



1
C509

SPLASH PAD TRENCH DRAIN DETAIL

SCALE: N.T.S.



2
C509

WATER STOP / ISOLATION JOINT DETAIL

SCALE: N.T.S.



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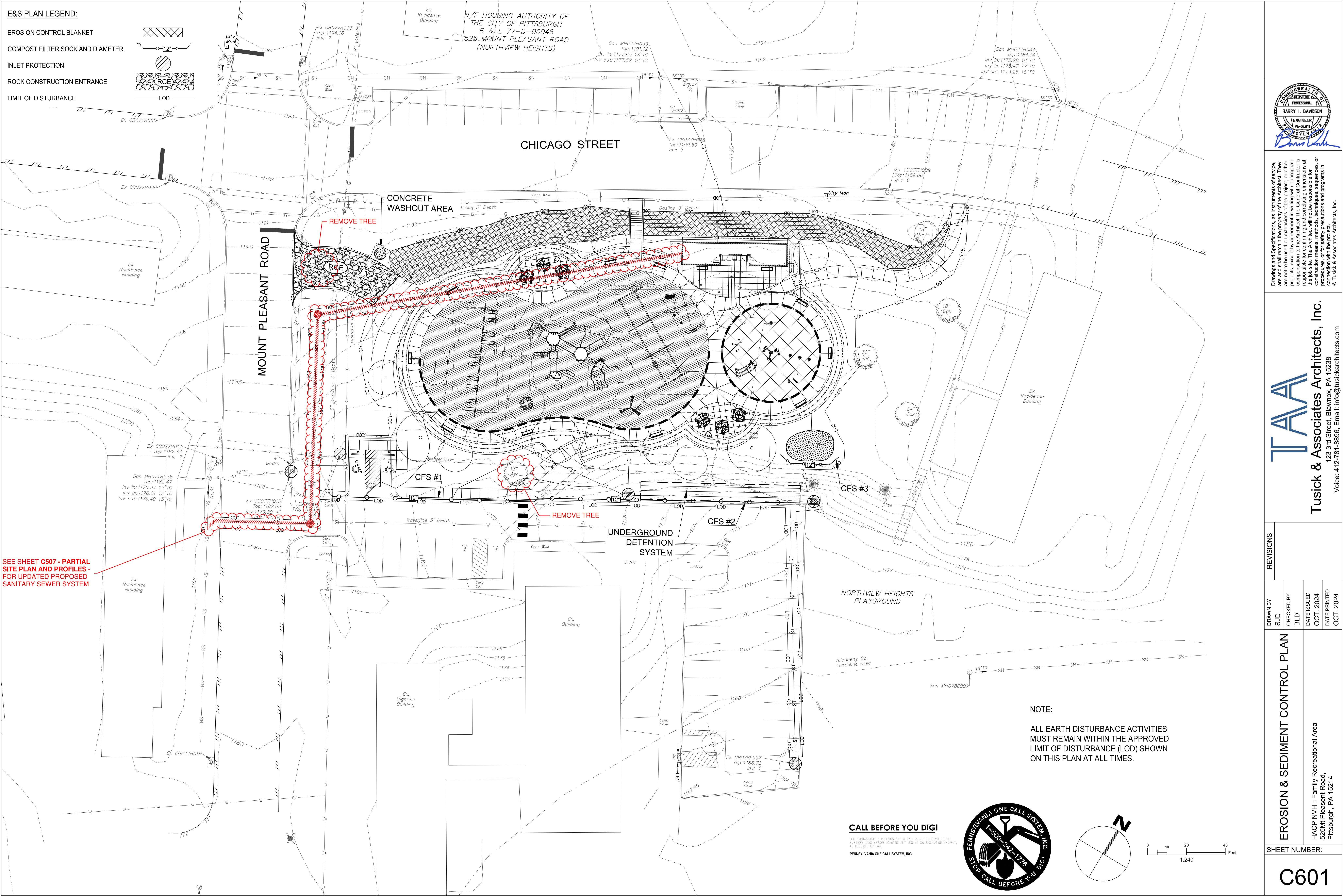
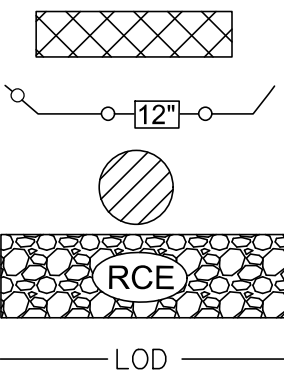
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CONSTRUCTION DETAILS II		DRAWN BY MAS		REVISIONS
HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214		CHECKED BY CEM		
		DATE ISSUED 07-31-2026		
		DATE PRINTED 07-09-2026		
		SHEET NUMBER:		
C509				

E&S PLAN LEGEND:

- EROSION CONTROL BLANKET
- COMPOST FILTER SOCK AND DIAMETER
- INLET PROTECTION
- ROCK CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE



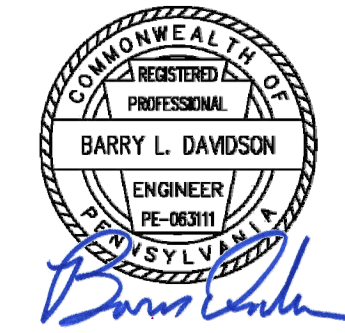
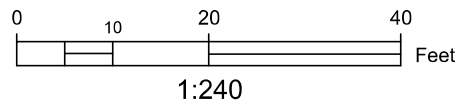
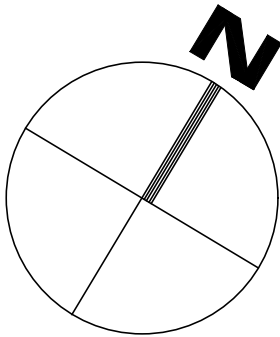
SEE SHEET C507 - PARTIAL SITE PLAN AND PROFILES - FOR UPDATED PROPOSED SANITARY SEWER SYSTEM

NOTE:
ALL EARTH DISTURBANCE ACTIVITIES MUST REMAIN WITHIN THE APPROVED LIMIT OF DISTURBANCE (LOD) SHOWN ON THIS PLAN AT ALL TIMES.

CALL BEFORE YOU DIG!

THE CONTAINER IS RESPONSIBLE TO CALL 4-1-1 AT LEAST TWICE BEFORE ANY WORK STARTING ANY JOBS OR EXCAVATION PROJECTS. AS PROVIDED BY LAW.

PENNSYLVANIA ONE CALL SYSTEM, INC.



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DRAWN BY	SJD
CHECKED BY	BLD
DATE ISSUED	OCT. 2024
DATE PRINTED	OCT. 2024

EROSION & SEDIMENT CONTROL PLAN

HACP NVH - Family Recreational Area
525Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

C601

GENERAL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEPARTMENT) PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE USING A PUMPED WATER FILTER BAG, OVER UNDISTURBED VEGETATED AREAS.
14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS ONTO CHICAGO STREET.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF UPSLOPE OF AN ESTABLISHED E&S BMP AS NOTED IN THE PLAN DRAWINGS.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES —6 TO 12 INCHES ON COMPACTED SOILS —PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE.
26. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
28. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
32. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY

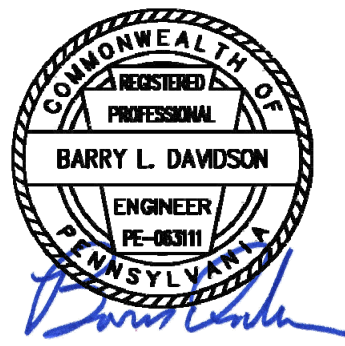
RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANDR CRIMINAL PENALTIES FOR EACH VIOLATION.

STAGING OF CONSTRUCTION ACTIVITIES:

THE FOLLOWING SEQUENCE OF CONSTRUCTION ACTIVITIES HAVE BEEN DEVELOPED TO PROVIDE THE CONTRACTOR WITH A GENERAL PROCEDURE FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENT. THE PROCEDURE IS INTENDED TO ADDRESS THE POTENTIAL FOR SEDIMENT POLLUTION AND ACCELERATED EROSION AS A RESULT OF THE PROJECT CONSTRUCTION.

SEQUENCE OF CONSTRUCTION:

1. STAKE OUT LIMIT OF DISTURBANCE FOR GRADING ACTIVITIES
2. ALL EARTH DISTURBANCE ACTIVITIES SHALL BE CONDUCTE WITHIN THE APPROVED LIMIT OF DISTURBANCE AS SHOWN ON THE PLANS.
3. INSTALL ROCK CONSTRUCTION ENTRANCE AT THE ANTICIPATED ENTRANCE TO THE CONSTRUCTION AREA.
4. INSTALL SEDIMENT FILTER BAG INLET PROTECTION IN THE EXISTING DRAINS WITHIN THE PROJECT LIMITS OF DISTURBANCE, IF IDENTIFIED IN THE FIELD. INSTALL SUPPLEMENTAL INLET PROTECTION TO AVOID SEDIMENTATION OF THE STORM SEWER SYSTEM.
5. INSTALL COMPOST FILTER SOCK IN THE ALIGNMENTS PRESENTED ON THE E&SPC PLAN DRAWINGS.
6. ESTABLISH TOPSOIL STOCKPILE AREA.
7. ESTABLISH CONCRETE WASHOUT FACILITY ONSITE FOR WASHING OF CONCRETE TRUCKS.
8. DEMOLISH THE EXISTING HARDSCAPE FEATURES AS NOTED IN THE BID DOCUMENTS.
9. PERFORM CLEAR AND GRUBBING ACTIVITIES WITHIN THE PROJECT LIMITS OF DISTURBANCE TO REMOVE THE EXISTING VEGETATION NOT DEMARCATED BY TEMPORARY PROTECTIVE FENCING.
10. REMOVE TOPSOIL AND STOCKPILE AT THE DESIGNATED ONSITE LOCATION FOR REUSE PRIOR TO ESTABLISHING PERMANENT VEGETATIVE STABILIZATION.
11. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH PADEP'S SOLID WASTE MANAGEMENT REGULATIONS.
12. PERFORM ROUGH EARTHWORK ACTIVITIES AS PRESENTED ON THE E&SPC PLAN DRAWINGS.
13. CONSTRCTOR SHALL CONSTRUCT CUT SLOPE FROM THE BOTTOM TO PREVENT HEAVY MACHINERY FROM IMPACTING EXISTING UTILITIES AT THE TOP OF SLOPE.
14. SHOULD ANY UNSTABLE SOIL CONDITIONS ARISE, THE CONTRACTOR SHALL IMMEDIATELY STABILIZE THE AREA AND CONTACT THE OWNER'S ENGINEER PRIOR TO CONTINUING WORK.
15. DURING GRADING ACTIVITIES, SHOULD ANY SOIL CONDITIONS BE ENCOUNTERED AS DESCRIBED ON THE SOILS LIMITATIONS AND RESOLUTIONS DETAIL. CONTRACTOR SHALL CONTACT THE SITE ENGINEER AND FOLLOW ALL APPLICABLE RESOLUTIONS.
16. CONCURRENT WITH GRADING ACTIVITIES, CONTRACTOR TO INSTALL STORM SEWER SYSTEM. INLET FILTER BAGS TO BE INSTALLED ON PROPOSED INLETS UNTIL VEGETATION IS ESTABLISHED UPSTREAM OF INLET
17. INSTALL STORMWATER DETENTION SYSTEM AS SHOWN ON THE PCSM PLAN AND DETAILS.
18. ACCUMULATED WATER IN UTILITY TRENCHES AND DETENTION TANK EXCAVATION SHALL BE REMOVED VIA PUMPED WATER FILTER BAG AND DISPOSED OF AS NOTED IN THE CONSTRUCTION DETAIL.
19. INSTALL PROPOSED HARDSCAPE FEATURES (RESTROOM BUILDING, PLAYGROUND, SPLASH PARK, SIDEWALKS, LANDSCAPING, ETC.) AND PERFORM FINE GRADING ACTIVITIES, APPLYING THE STOCKPILED TOPSOIL TO AREAS TO BE SEEDED.
20. APPLY MULCH OR THE PERMANENT SEED MIX TO THE NON-PAVED AREAS TO STABILIZED, AS INDICATED IN THE BID DOCUMENTS.
21. RETAIN EROSION AND SEDIMENT CONTROLS IN PLACE UNTIL 70% UNIFORM PERENNIAL VEGETATIVE STABILIZATION IS ACHIEVED AT AREAS TO BE SEEDED OR UNTIL EXPOSED EARTH SURFACES ARE COVERED WITH A PERMANENT AGGREGATE, MULCH, OR HARDSCAPE MATERIAL.
22. ONCE STABILIZATION HAS OCCURRED, FLUSH ALL ACCUMULATED SEDIMENT IN PIPES, INLETS, AND OTHER AREAS. CLEAN OUT SEDIMENT AND DEBRIS FROM STORMWATER COLLECTION, CONVEYANCE, AND DETENTION SYSTEM PRIOR TO REMOVING E&S CONTROLS.
23. REMOVE EROSION AND SEDIMENT CONTROLS UPON STABILIZATION OF ALL SURFACES.



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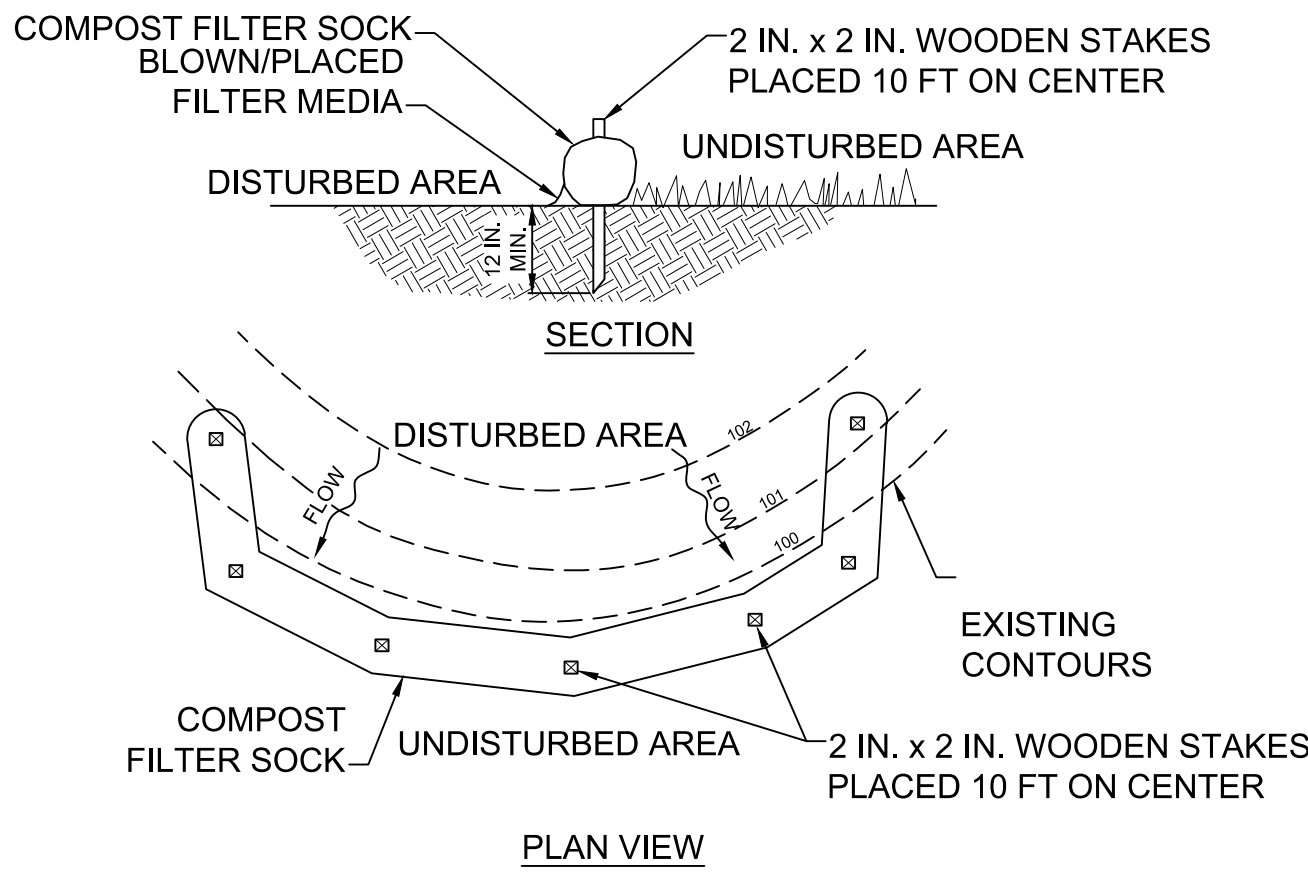
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EROSION & SEDIMENT CONTROL DETAILS		DRAWN BY SJD	REVISIONS
		CHECKED BY BLD	
		DATE ISSUED OCT. 2024	
		DATE PRINTED OCT. 2024	
HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214			

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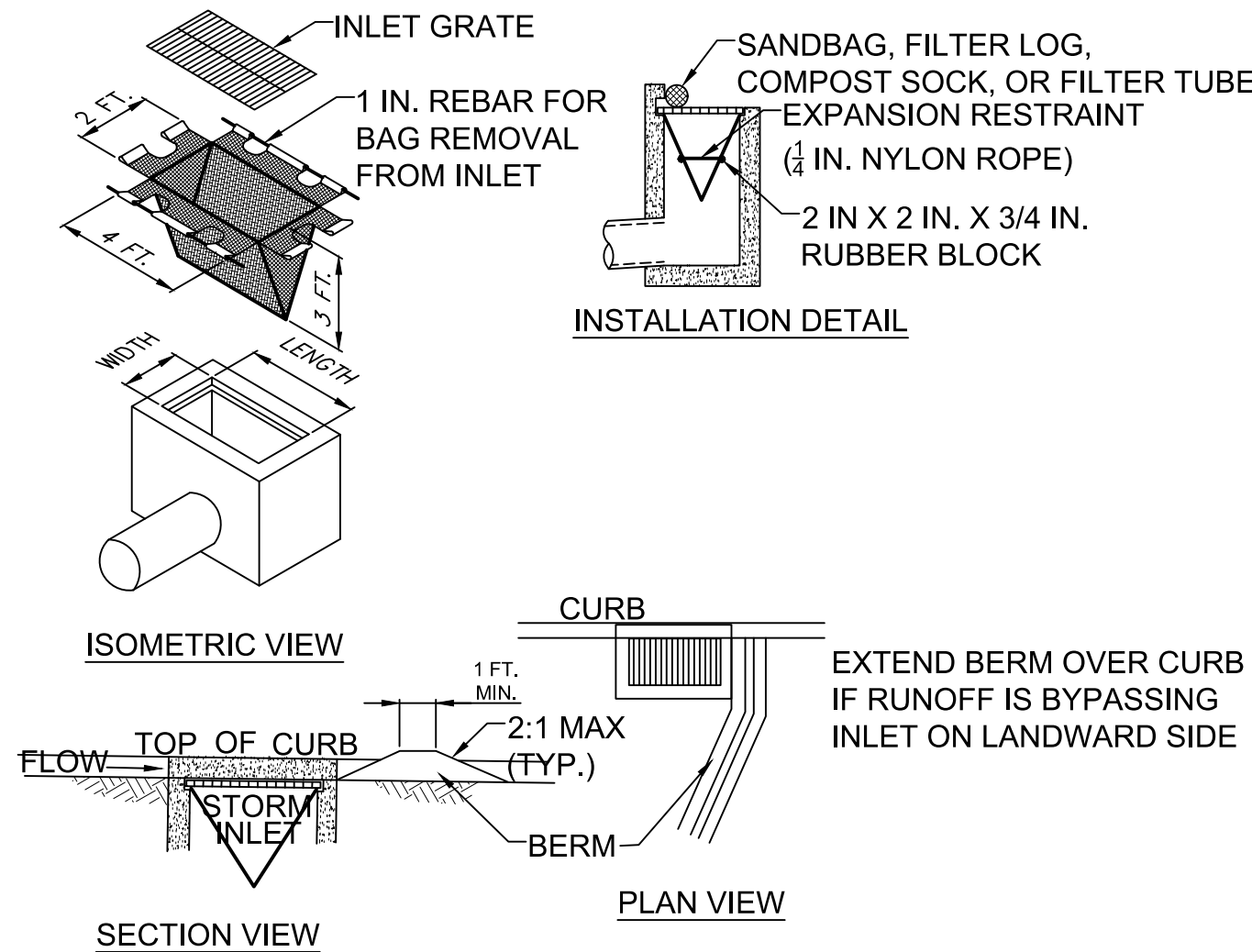


NOTES:

- SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PADEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PADEP EROSION CONTROL MANUAL.
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

COMPOST FILTER SOCK

SCALE: NTS

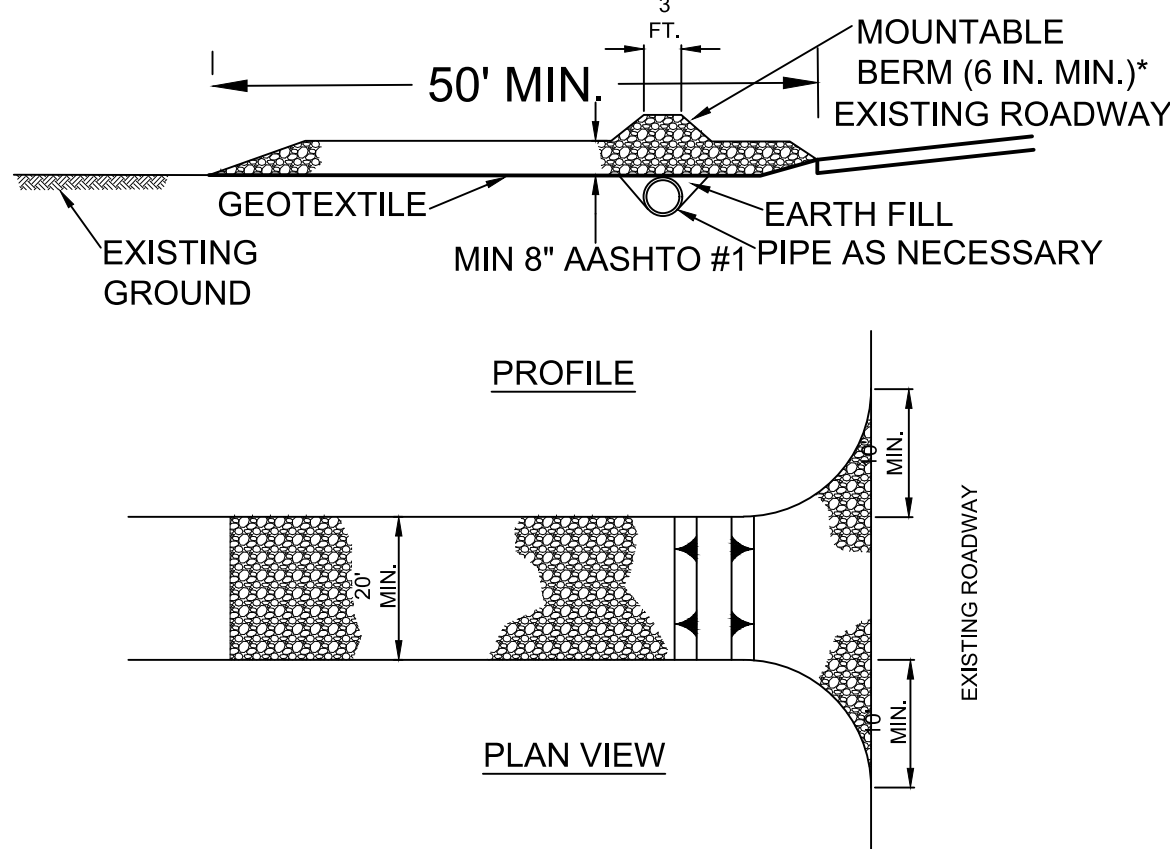


NOTES:

- MAXIMUM DRAINAGE AREA = 1/2 ACRE.
- ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
- AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
- DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG INLET PROTECTION - TYPE C INLET

SCALE: NTS



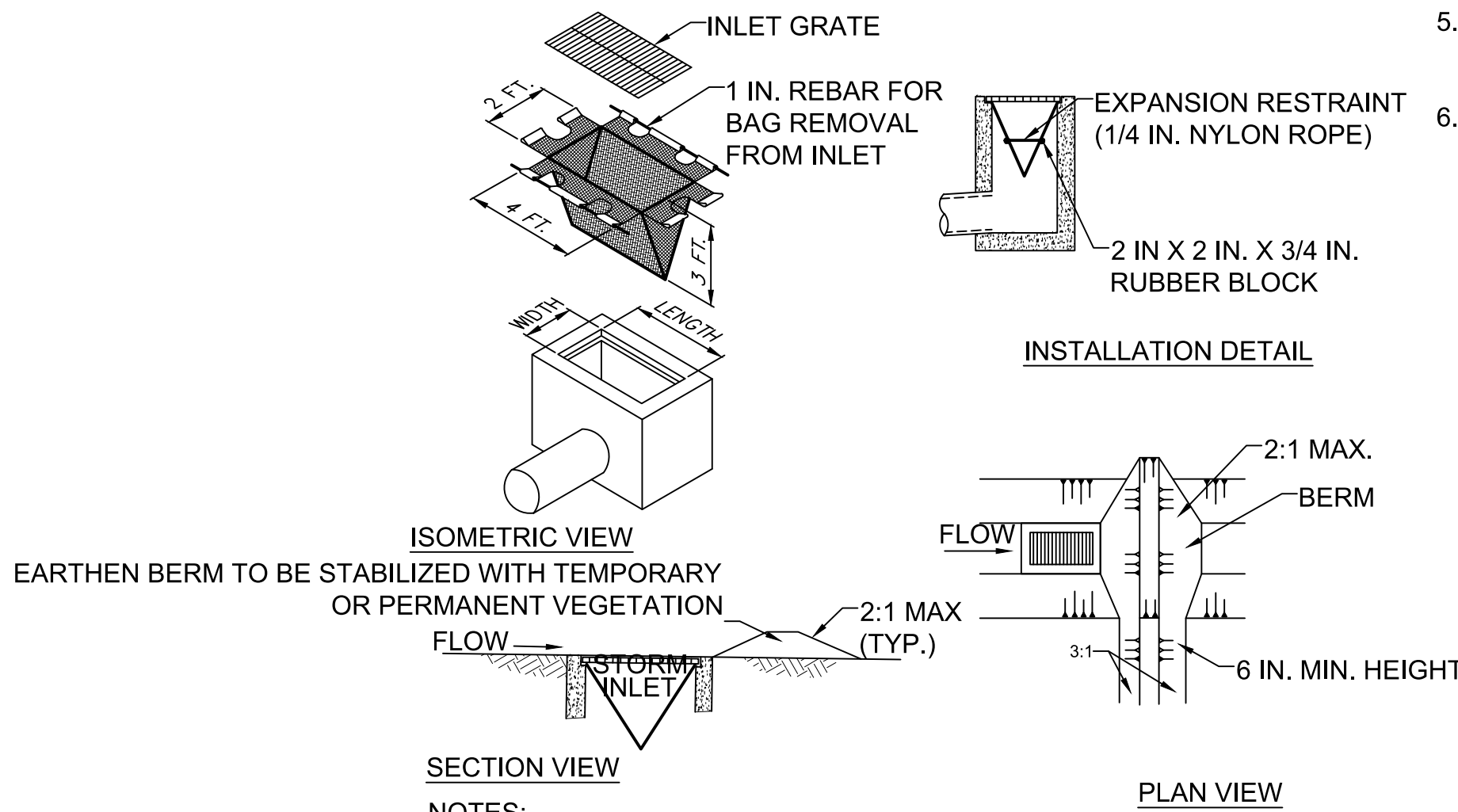
* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

- REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
- RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
- MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
- MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ROCK CONSTRUCTION ENTRANCE

SCALE: NTS

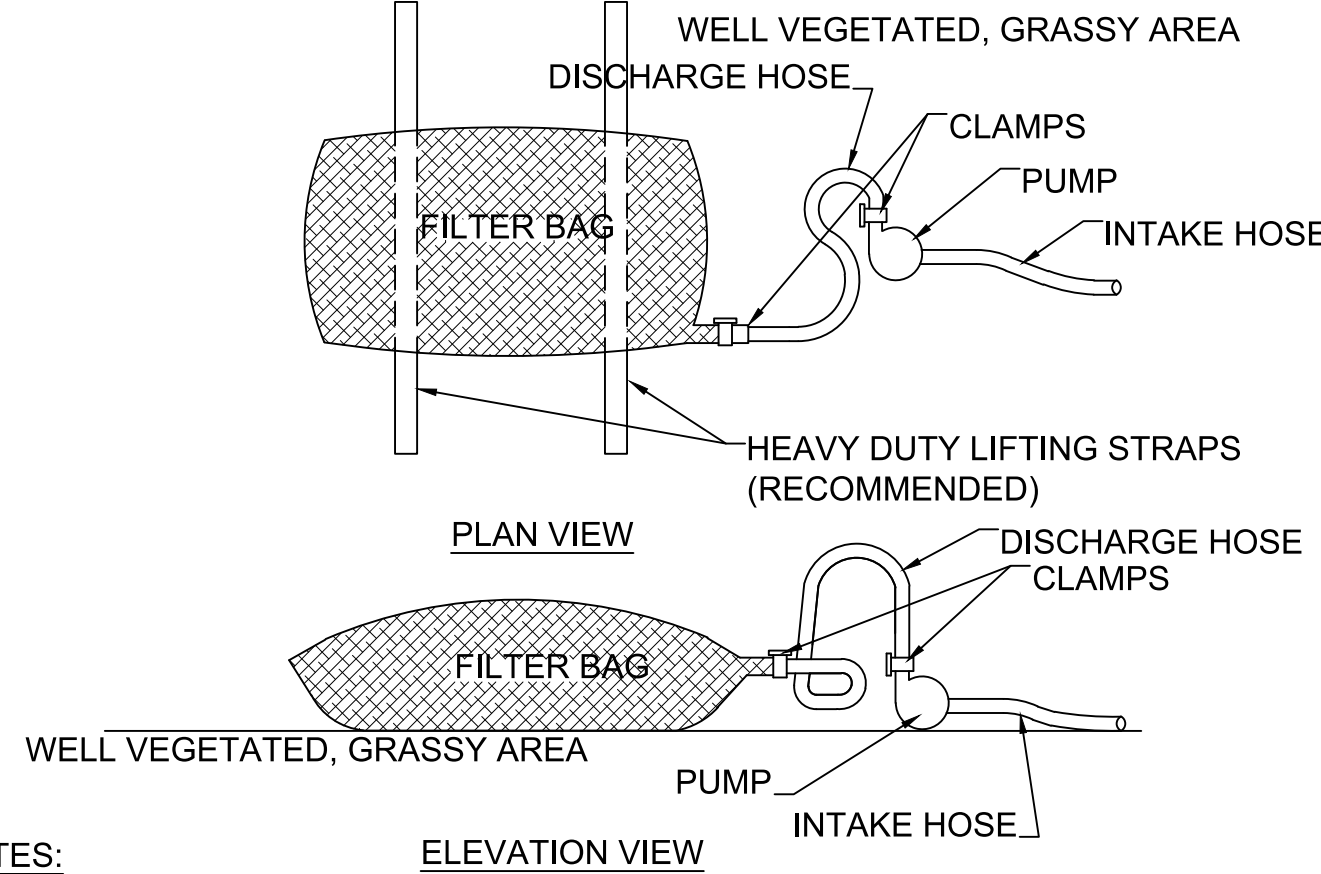


NOTES:

- MAXIMUM DRAINAGE AREA = 1/2 ACRE.
- ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.
- AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
- DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG INLET PROTECTION - TYPE M INLET

SCALE: NTS



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4633	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
- BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
- NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
- THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
- THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
- FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG

SCALE: NTS



Drawings and Specifications, as instruments of service, are and shall remain the property of the Architect. They are not to be used on extensions of the project, or other projects, except by agreement in writing with appropriate written consent of the Architect. The Architect shall be responsible for confirming and correlating dimensions at the job site. The Architect will not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the project.
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