

CIVIL NOTES

- TEMPORARY BENCH MARKS (TBM'S) AS INDICATED ON THE PLANS.
- THE UTILITY LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION BY THE CONTRACTOR. TEST PITS SHALL BE REQUIRED FOR ALL UNDERGROUND UTILITY CONNECTIONS.
- COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES AND EMERGENCY SERVICES.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR COMMENCING WORK TO ALLOW SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF ALL BURIED UTILITIES. CONTRACTOR SHALL ALSO CONTACT "DIG SAFE", TELEPHONE 888-344-7233. REPAIR OF ANY DAMAGE UTILITY WILL BE INCIDENTAL.
- TAKE ALL NECESSARY PRECAUTIONS TO PREVENT EQUIPMENT FLUIDS FROM REACHING THE MUNICIPAL COMBINED SEWER SYSTEM. ANY RELEASE SHALL BE REPORTED AND REMEDIATED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT WILL BE RESET AT THE CONTRACTOR'S EXPENSE, BY A PROFESSIONAL LAND SURVEYOR.
- ALL AREAS, WHETHER LAWN, GRAVEL, BRICK, BITUMINOUS, OR OTHER AREAS ADJACENT TO THE WORK AREAS, DAMAGED BY THE CONTRACTOR'S EQUIPMENT OR WORK, OR TRAFFIC RELATED TO THE PROJECT, SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- FLOW IN EXISTING COMBINED SEWERS ON WINSLOW STREET, BEDFORD STREET AND SURRENDER STREET SHALL BE MAINTAINED DURING THE CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF EXISTING PIPES AND MANHOLES WHERE NEW PIPE IS TO BE CONNECTED. ENGINEER SHALL ADJUST GRADES AND ELEVATIONS IF NECESSARY.
- CONTRACTOR SHALL PROVIDE 10 FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN WATER AND SEWER MAINS. WHEN THIS HORIZONTAL SEPARATION IS NOT POSSIBLE, INSTALL SEWER MAIN AT LEAST 18 INCHES BELOW BOTTOM OF WATERMAIN TO TOP OF SEWER, OR UPGRADE SEWER PIPE TO SDR 26 PVC.
- INSULATE ALL SEWER MAINS, WATERMANS AND SEWER SERVICES WITH LESS THAN 4-1/2 FEET OF COVER, OR WHERE DIRECTED BY ENGINEER. RIGID INSULATION REQUIRED: 2" THICK, BY 4" WIDE, UNLESS OTHERWISE NOTED.
- EXISTING FENCES, LIGHT POSTS, WALKS, POLES, AND OTHER ITEMS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND REPLACED OR PROTECTED DURING CONSTRUCTION.
- COST OF REMOVAL OF EXISTING MANHOLE AND CATCHBASIN STRUCTURES AND PIPING IS INCIDENTAL TO THE CONTRACT.
- HORIZONTAL DATUM IS MAINE STATE PLANE COORDINATES NAD 1983, WESTERN ZONE. VERTICAL DATUM IS MVD 1929.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR SITEWORK IN ADVANCE OF CONSTRUCTION TO INCLUDE, BUT NOT LIMITED TO; CITY OF PORTLAND ROAD OPENING PERMIT, MDOT HIGHWAY OPENING PERMIT, AND MDOT (UTILITY) LOCATION PERMIT.
- PAVEMENT MARKINGS AND ROAD SIGNAGE TO BE PROVIDED SHALL COMPLY WITH THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAYS AND BRIDGES (LATEST REVISION), AND THE US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) MILLENNIUM EDITION (LATEST REVISION).
- ALL WORK ASSOCIATED WITH THE PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES VI, VII, AND IX OF CHAPTER 26-STREETS, SIDEWALKS AND OTHER PUBLIC PLACES OF THE CITY OF PORTLAND CODE OF ORDINANCES.
- ALL SEWER CONSTRUCTION IN THE PUBLIC WAY SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES II OF CHAPTER 24-SEWERS OF THE CITY OF PORTLAND CODE OF ORDINANCES.
- THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "AS-BUILT" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO BOTH THE SANITARY AND STORM SEWER SYSTEM WITHIN THE PROJECT LIMITS BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT.
- THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "AS-BUILT" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS WITHIN THE PUBLIC RIGHT OF WAY BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT.
- IN ACCORDANCE WITH SPECIFICATION SECTION 02210, CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO MINIMIZE DUST RESULTING FROM THE PROJECT BOTH ON AND OFF THE SITE. MEASURES MAY INCLUDE SWEEPING AND WATERING.
- AS A RESULT OF ONGOING CONSTRUCTION OF THE PARKING GARAGE PROJECT, EXISTING SITE CONDITIONS WILL VARY WIDELY. CONTRACTOR SHALL BE RESPONSIBLE FOR OBSERVING SITE CONDITIONS PRIOR TO FINAL ACCEPTANCE OF BID AND ALL WORK NECESSARY TO COMPLETE THE PROJECT.
- FOR BEDFORD STREET WIDENING, SEE SHEETS C202 THROUGH C206. ROADWAY CONSTRUCTION ON BEDFORD STREET IS LIMITED TO WORK NORTH OF, AND INCLUDING, EXISTING NORTHERLY CURBLINE BETWEEN STATION 53+85 AND STATION 57+45 CONSTRUCTION BASELINE WEST, AND INCLUSIVE OF PARKING LOT EXIT CURB RETURN.

CIVIL ABBREVIATIONS

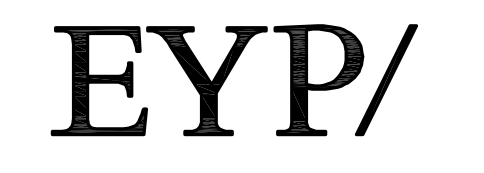
ADJ. AFF. ALUM. ASTM @ AVE. BLDG. BOT	ADJUSTABLE ABOVE FINISH FLOOR ALUMINUM AMERICAN SOCIETY OF TESTING MATERIALS AT AVENUE BUILDING BOTTOM	IN. INSUL. INV. IPT L LF LP MAX. ME MH MISC. N.T.S. NO. P. P.C. PE PSF PSI P.T. PVC R R/W S S.S SCH. SMH SPEC. SQ. ST. STA. TS & G TYP. VERT. W W/	INCH INSULATION INVERT IRON PIPE THREADED LENGTH LINEAR FEET LOW POINT MAXIMUM MANHOLE MISCELLANEOUS NOT TO SCALE NUMBER PROBE POINT OF CURVE POLYETHYLENE PER SQUARE FOOT PER SQUARE INCH POINT OF TANGENT POLYVINYL CHLORIDE RADIUS RIGHT-OF-WAY SEWER STAINLESS STEEL SCHEDULE SEWER MANHOLE SPECIFICATIONS SQUARE STREET STATION TAPPING SLEEVE AND GATE TYPICAL VERTICAL WIDTH WITH
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CIVIL LEGEND

	EXISTING CONTOUR (2' INTERVAL)		CONIFEROUS TREE
	EXISTING INDEX CONTOUR (10' INTERVAL)		EXISTING SIGN
	PROPOSED CONTOUR		PROPOSED SIGN
	EXISTING UNDERGROUND ELECTRIC		EXISTING UTILITY POLE
	EXISTING OVERHEAD ELECTRIC		EXISTING UTILITY POLE WITH GUY WIRE
	PROPERTY LINE, RIGHT-OF-WAY, EASEMENT		BORING
	EDGE OF TRAVELED WAY		EXISTING CATCH BASIN
	EDGE OF GRAVEL DRIVE		PROPOSED CATCH BASIN
	EXISTING CURB (TYPE IDENTIFIED)		PROPOSED GRANITE CURB
	PROPOSED GRANITE CURB		IRON PIN FOUND
	EXISTING SEWER MAIN		EXISTING MANHOLE
	PROPOSED SEWER		EXISTING HYDRANT
	PROPOSED SEWER SERVICE		PROPOSED HYDRANT
	EXISTING WATERMAIN		PROPOSED WATERMAIN
	PROPOSED WATERMAIN		EXISTING GATE VALVE
	EXISTING WATER SERVICE W/ GATE VALVE		PROPOSED GATE VALVE W/ CURB STOP
	PROPOSED SOLID WALL UNDERDRAIN		PROPOSED DRAIN MANHOLE
	PROPOSED PERFORATED WALL UNDERDRAIN		PROPOSED SEWER MANHOLE
	PROPOSED STORMDRAIN		TEST PIT
	PROPOSED TELEPHONE		PROPOSED CLEANOUT
	PROPOSED FIRE ALARM		EXISTING SPOT ELEVATION
	PROPOSED GAS		PROPOSED SPOT ELEVATION
	PROPOSED UNIVERSITY COMMUNICATIONS		EXISTING FLAG POLE
	EXISTING RETAINING WALL		POST
	EXISTING FENCE		MAILBOX
	STONE WALL		MONUMENT SET
	STONE WALL		
	EXISTING TREELINE		

GMP DOCUMENTS	1/19/04
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Einhorn Yaffee Prescott
Architecture & Engineering P.C.
24 School Street
Boston, MA 02108
Telephone 617 305 9800
Fax 617 305 9888
eyppae.com

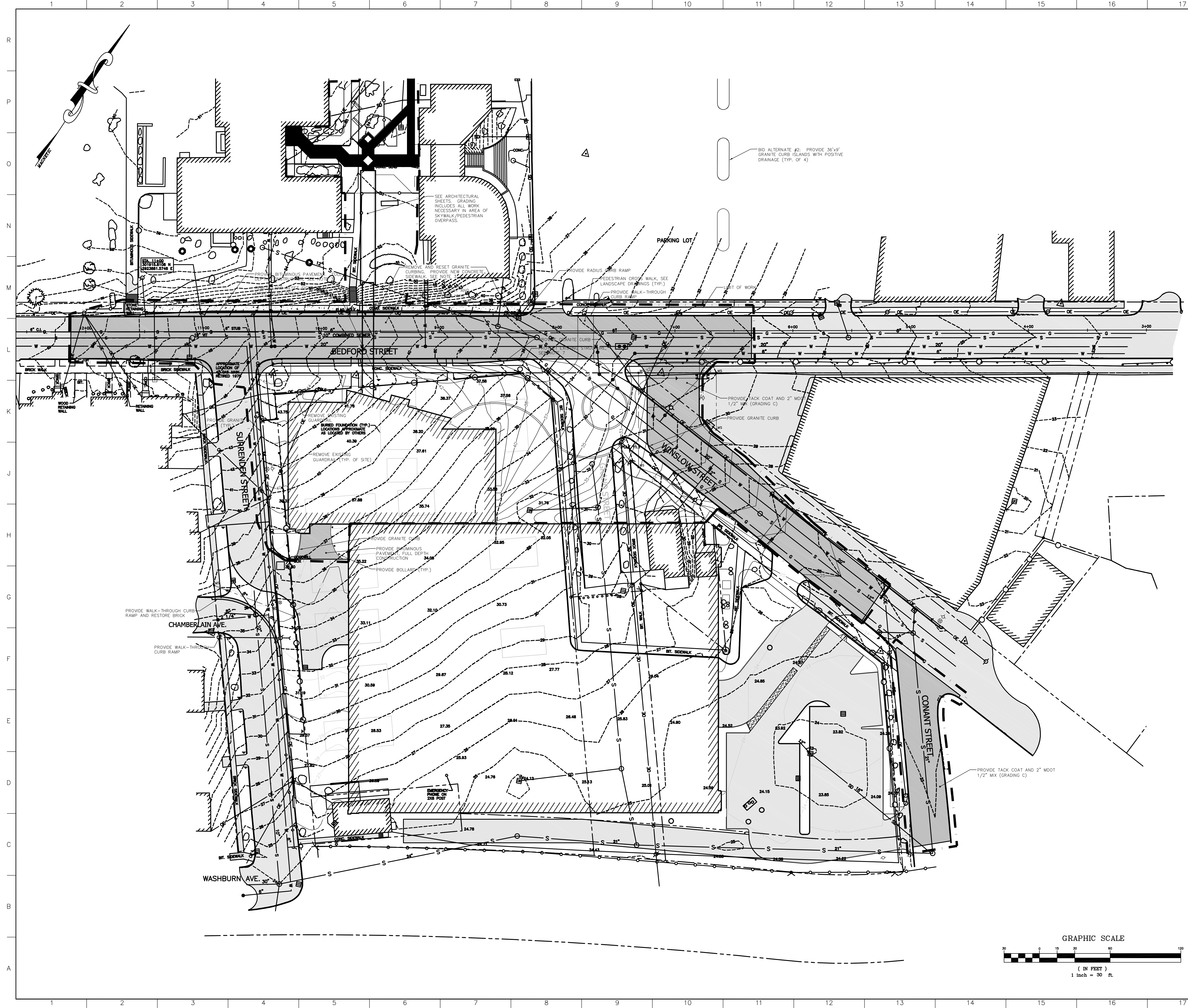


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drawing title
CIVIL LEGEND AND NOTES

seal	designed by BSS	project no. 5001024.00
	drawn by JBC/BSS	CAD file no. WC\20339402-C100-50
	checked by BSS	drawing no.
	date 1/19/2004	C100
	scale AS NOTED	



- NOTES:**
1. PROVIDE AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION CONSISTENT WITH THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES (BMPs).
 2. PROTECT EXISTING SURVEY MONUMENTS. CONTRACTOR SHALL RESET DISTURBED SURVEY MONUMENTS BY A REGISTERED SURVEYOR AS DIRECTED BY AND AT NO COST TO THE OWNER. ANY CITY STREET MONUMENT DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A LICENSED SURVEYOR AFTER CONTACTING THE CITY'S ENGINEERING DIVISION.
 3. FOR BEDFORD STREET WIDENING GRADING PLAN, SEE SHEETS C202 THROUGH C205. ROADWAY CONSTRUCTION ON BEDFORD STREET IS LIMITED TO WORK NORTH OF AND INCLUDING EXISTING NORTHERLY CURBLINE BETWEEN STATION 53+45 AND STATION 57+45. CONSTRUCTION BASELINE WEST, AND INCLUSIVE OF PARKING LOT EXIT CURB RETURN.
 4. COORDINATE LANDSCAPE/PLANTING PLAN WITH LANDSCAPE SHEETS.
 5. GRANITE CURBING REMOVED AND NOT RESET (WITHIN CITY R.O.W.) IS PROPERTY OF CITY OF PORTLAND PUBLIC WORKS DEPARTMENTS. ALL CURB REMOVED FROM THE PUBLIC RIGHT OF WAY WILL BE DELIVERED TO THE PUBLIC WORKS MATERIAL STOCK YARD ON OUTER CONGRESS STREET.
 6. REFER TO BEDFORD STREET GRADING CROSS SECTION SHEET C205.
 7. EXISTING STRUCTURE CONTAINS CITY OF PORTLAND SURVEY MONUMENTS. SEE NOTE 2.

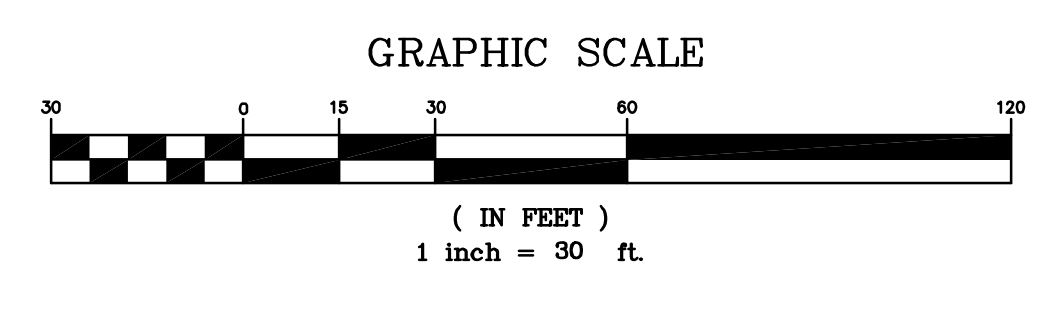
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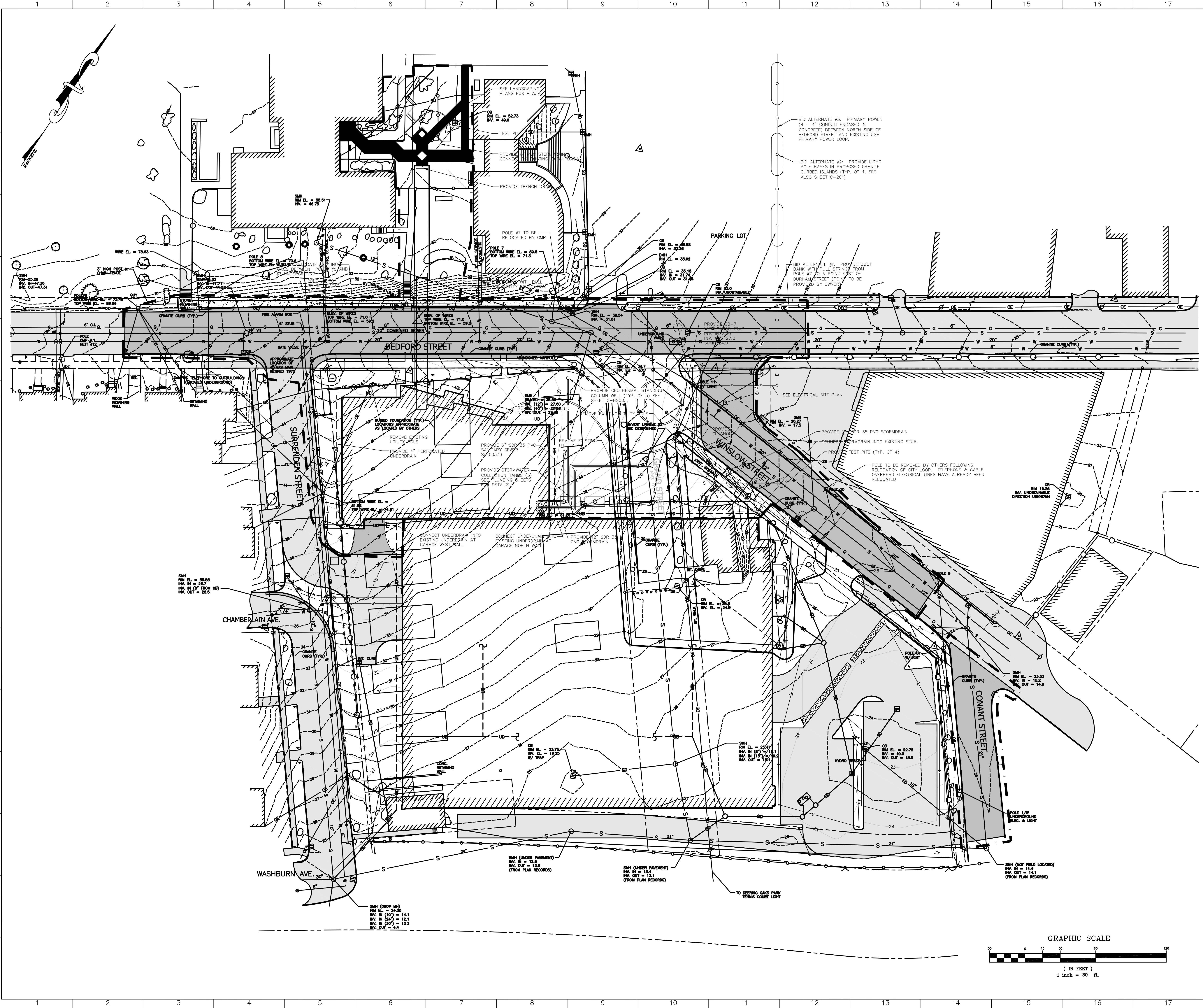
Einhorn Yaffee Prescott
 Architecture & Engineering P.C.
 24 School Street
 Boston, MA 02108
 Telephone 617 305 9800
 Fax 617 305 9888
 eypae.com



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	date	
	1/19/2004	
	scale	
	1" = 30'	C201





- NOTES:**
1. PROVIDE AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION CONSISTENT WITH THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES (BMPs).
 2. ABANDON GRAND STREET COMBINED SEWER AND ALL UPSTREAM CONTRIBUTING STRUCTURES AND PIPING TO THE MANHOLE (UNDER PAVEMENT) AT THE SOUTH END OF THE FORMER GRAND STREET IN ACCORDANCE WITH THE CITY OF PORTLAND PUBLIC WORKS DEPARTMENT REQUIREMENTS. SPECIFICALLY, ALL OUTLET PIPES SHALL BE SEALED AT OR NEAR THE POINT WHERE A STRUCTURE IS REMOVED AND AT ITS CORRESPONDING INLET INTO A DOWNSTREAM STRUCTURE.
 3. EXISTING WATER SERVICES TO BE ABANDONED BACK TO THE CORPORATION STOP AT THE MAIN IN ACCORDANCE WITH PORTLAND WATER DISTRICT REQUIREMENTS.
 4. SANITARY SEWER AND STORM SEWER CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH CITY OF PORTLAND TECHNICAL AND DESIGN STANDARDS AND GUIDELINES.
 5. NEW WATER CONNECTIONS TO BE MADE IN ACCORDANCE WITH PORTLAND WATER DISTRICT REQUIREMENTS.
 6. RESET EXISTING RIMS, GRATES, AND VALVE COVERS TO 1/2" BELOW PROPOSED FINISH PAVEMENT ELEVATIONS ON BEDFORD AND WINSLOW STREETS.
 7. SET NEW RIMS, GRATES, AND VALVE COVERS TO MATCH PROPOSED FINISHED GRADES.
 8. NEW GAS LINE CONNECTIONS TO BE MADE IN ACCORDANCE WITH NORTHWEST UTILITIES REQUIREMENTS.
 9. PROVIDE PERIMETER FOUNDATION UNDERDRAINS AS DEPICTED, ELEVATIONS AS NOTED ON STRUCTURAL PLANS. PROVIDE AND COORDINATE INTERIOR FOUNDATION UNDERDRAIN LOCATIONS AND ELEVATIONS WITH PLUMBING AND STRUCTURAL PLANS.
 10. COORDINATE ALL UTILITY (GAS, WATER, ELECTRICAL, SANITARY SEWER, ROOF DRAINS, GARAGE DRAINS, AND TELEPHONE) SERVICE CONNECTION LOCATIONS TO THE NEW BUILDINGS WITH THEIR RESPECTIVE DISCIPLINE SPECIFIC PLANS.
 11. CONTRACTOR SHALL COMPLETE TEST PITS AT ALL PROPOSED CONNECTIONS TO EXISTING UTILITIES.
 12. COORDINATE ELECTRICAL FEED SOURCE WITH CENTRAL MAINE POWER (CMP).

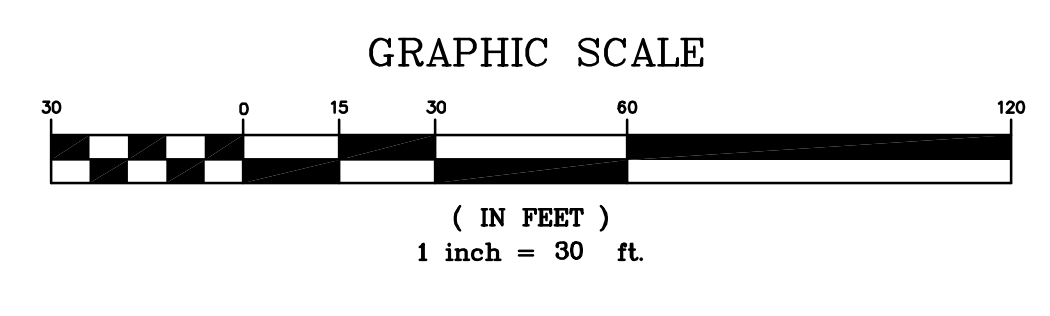
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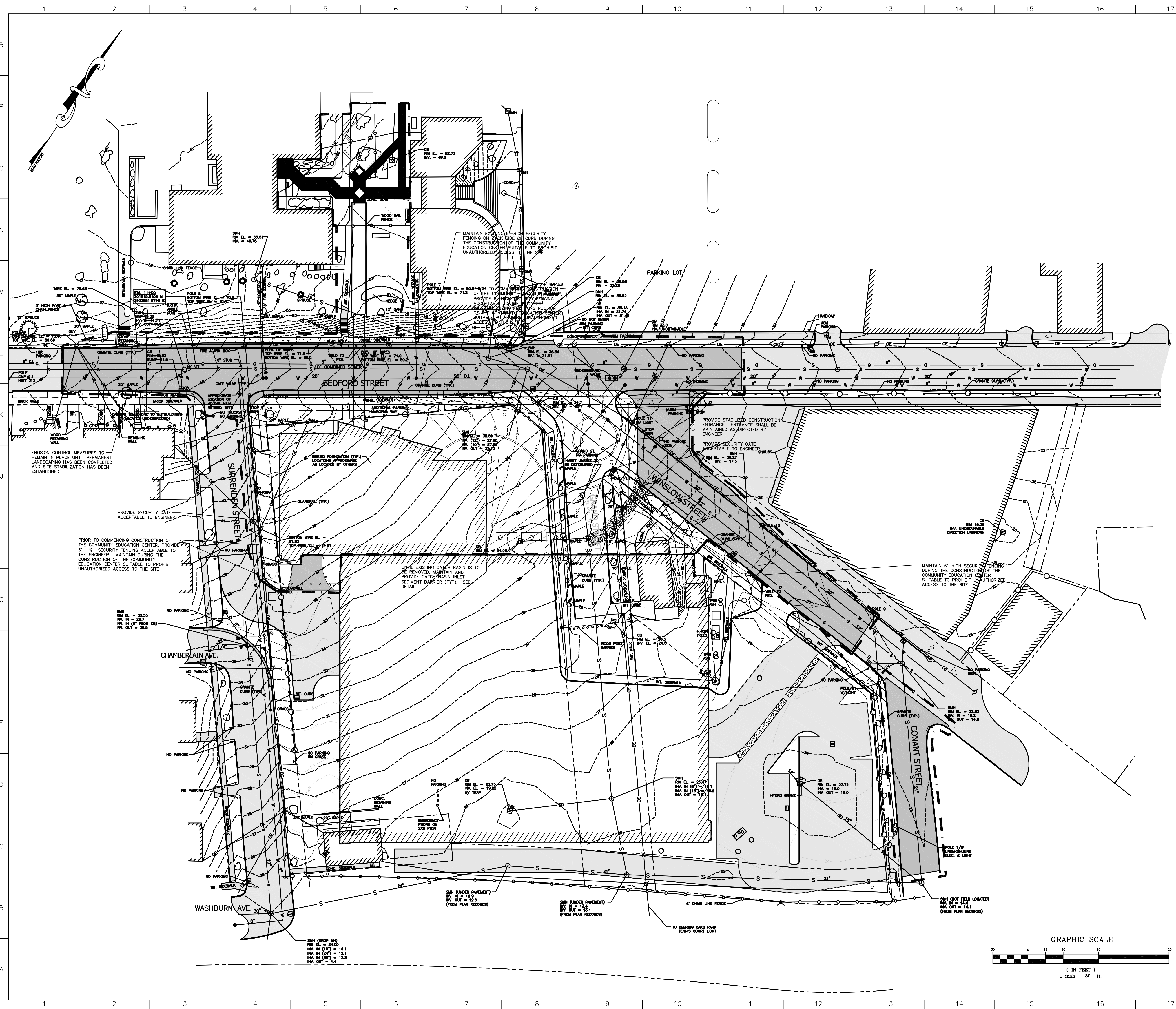
Einhorn Yaffee Prescott
 Architecture & Engineering P.C.
 24 School Street
 Boston, MA 02108
 Telephone 617 305 9800
 Fax 617 305 9888
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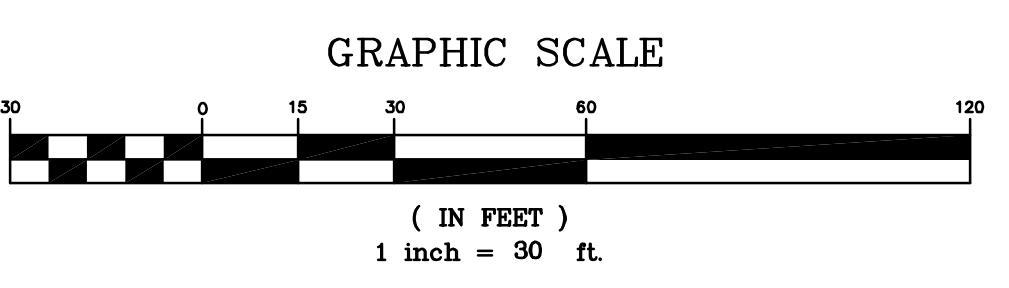
drawing title	UTILITY PLAN
seal	designed by project no. 5001024.00 KRV/BSS drawn by JBC CAD file no. WC\20339402-C207-50 checked by BSS drawing no. date 1/19/2004 scale 1" = 30' C207

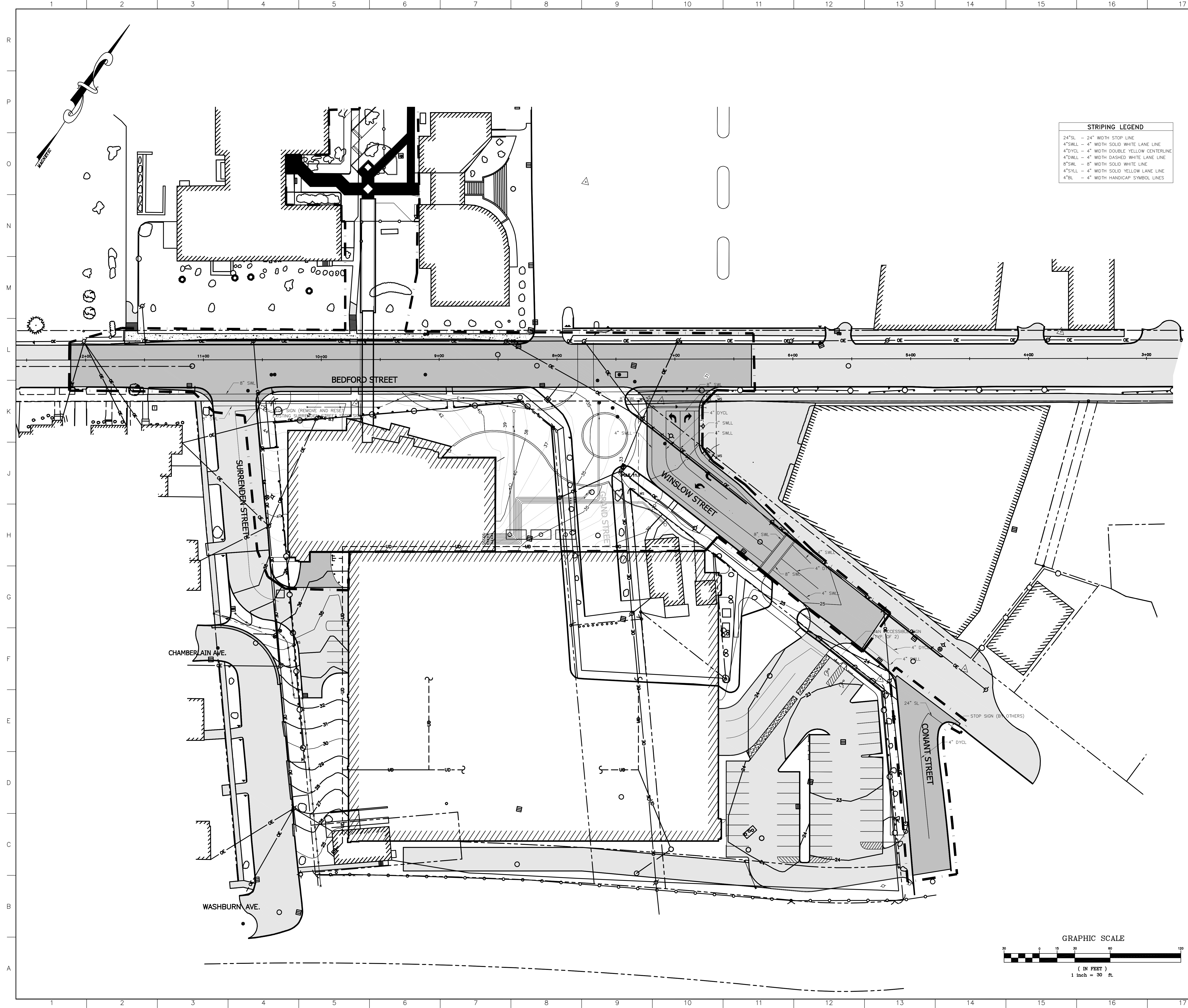




- NOTES:**
- PROTECT EXISTING SURVEY MONUMENTS. CONTRACTOR SHALL RESET DISTURBED SURVEY MONUMENTS BY A REGISTERED SURVEYOR AS DIRECTED BY AND AT NO COST TO THE OWNER.
 - COORDINATE LANDSCAPE/PLANTING PLAN WITH LANDSCAPING DRAWINGS.
 - GRAND STREET SEWER MAIN TO BE ABANDONED TO THE MANHOLE (UNDER PAVEMENT) AT THE SOUTH END OF THE FORMER GRAND STREET IN ACCORDANCE WITH THE CITY OF PORTLAND DEPARTMENT OF PUBLIC WORKS REQUIREMENTS.
 - EXISTING WATER SERVICES TO BE ABANDONED BACK TO THE CORPORATION STOP AT THE MAIN IN ACCORDANCE WITH PORTLAND WATER DISTRICT REQUIREMENTS.
- EROSION & SEDIMENT CONTROL:**
- PROVIDE AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION CONSISTENT WITH THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION, BEST MANAGEMENT PRACTICES (BMPs).
 - ANY DISTURBED AREAS TO BE VEGETATED SHALL BE REPAIRED WITH 6 INCHES OF TOPSOIL, SEED AND MULCH. TOPSOIL AND MULCH SHALL BE AS SPECIFIED IN THE BMPs. APPLY LIME AND FERTILIZER AS RECOMMENDED BY RESULTS OF STANDARD SOIL TEST. GRASS SEED SHALL BE PARK MIXTURE AS SPECIFIED IN SECTION 317 OF THE MAINE DOT STANDARD SPECIFICATIONS. STABILIZE DISTURBED AREAS NOT USED OUTSIDE THE FOOTPRINT OF THE COMMUNITY EDUCATION FACILITY OR PARKING GARAGE WITHIN 14 DAYS.
 - THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE DURING THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL INSPECT THE SILT FENCE BEFORE AND AFTER SIGNIFICANT RAIN EVENTS AND REPAIR IF NECESSARY.
 - ALL VEGETATED BUFFERS BETWEEN THE DISTURBED CONSTRUCTION AREA AND ADJACENT ROADWAYS AND PROPERTIES SHALL REMAIN INTACT.
 - PORTIONS OF THE EXISTING STORMDRAIN SYSTEM AND SEVERAL OF THE EXISTING CATCH BASINS ARE TO BE ABANDONED AS PART OF THIS PROJECT. CONTRACTOR SHALL PROVIDE INLET SEDIMENT BARRIERS FOR EXISTING CATCH BASINS WITHIN THE LIMIT OF WORK. CONTRACTOR SHALL MAINTAIN THE INLET SEDIMENT BARRIER UNTIL THE CATCH BASIN IS ABANDONED. SEE UTILITY PLAN FOR CATCH BASINS AND STORMDRAINS THAT ARE TO BE ABANDONED. CONTRACTOR SHALL PROVIDE NEW CATCH BASINS WITH AN INLET SEDIMENT BARRIER UNTIL FINAL PAVING IS COMPLETE.

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Einhorn Yaffee Prescott Architecture & Engineering P.C. 24 School Street Boston, MA 02108 Telephone 617 305 9800 Fax 617 305 9888 eypae.com		
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UNIVERSITY OF SOUTHERN MAINE COMMUNITY EDUCATION CENTER - PHASE 2 PORTLAND, MAINE		
drawing title EROSION AND SEDIMENTATION CONTROL AND SITE SECURITY PLAN		
seal	designed by	project no.
	KRV/BSS	5001024.00
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	scale	1" = 30'
		C208





STRIPING LEGEND	
24"SL	24" WIDTH STOP LINE
4"SWL	4" WIDTH SOLID WHITE LANE LINE
4"DYCL	4" WIDTH DOUBLE YELLOW CENTERLINE
4"DWL	4" WIDTH DASHED WHITE LANE LINE
8"SWL	8" WIDTH SOLID WHITE LANE LINE
4"SYLL	4" WIDTH SOLID YELLOW LANE LINE
4"BL	4" WIDTH HANDICAP SYMBOL LINES

NOTES:
 1. FOR BEDFORD STREET PAVEMENT MARKINGS, SEE DRAWING SHEET C204, PAVEMENT MARKING PLAN.

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Einhorn Yaffee Prescott
 Architecture & Engineering P.C.
 24 School Street
 Boston, MA 02108
 Telephone 617 305 9800
 Fax 617 305 9888
 eypae.com

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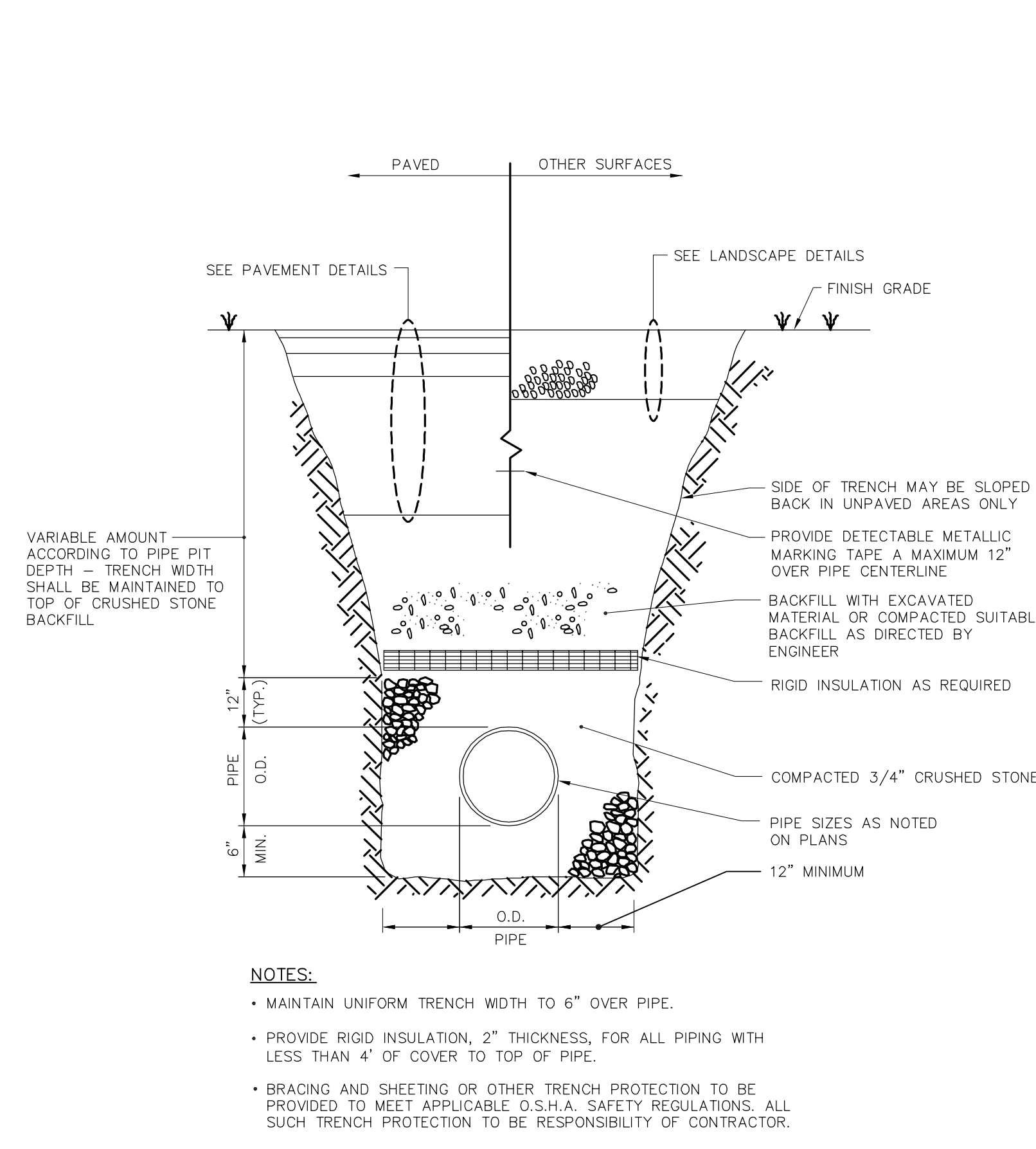
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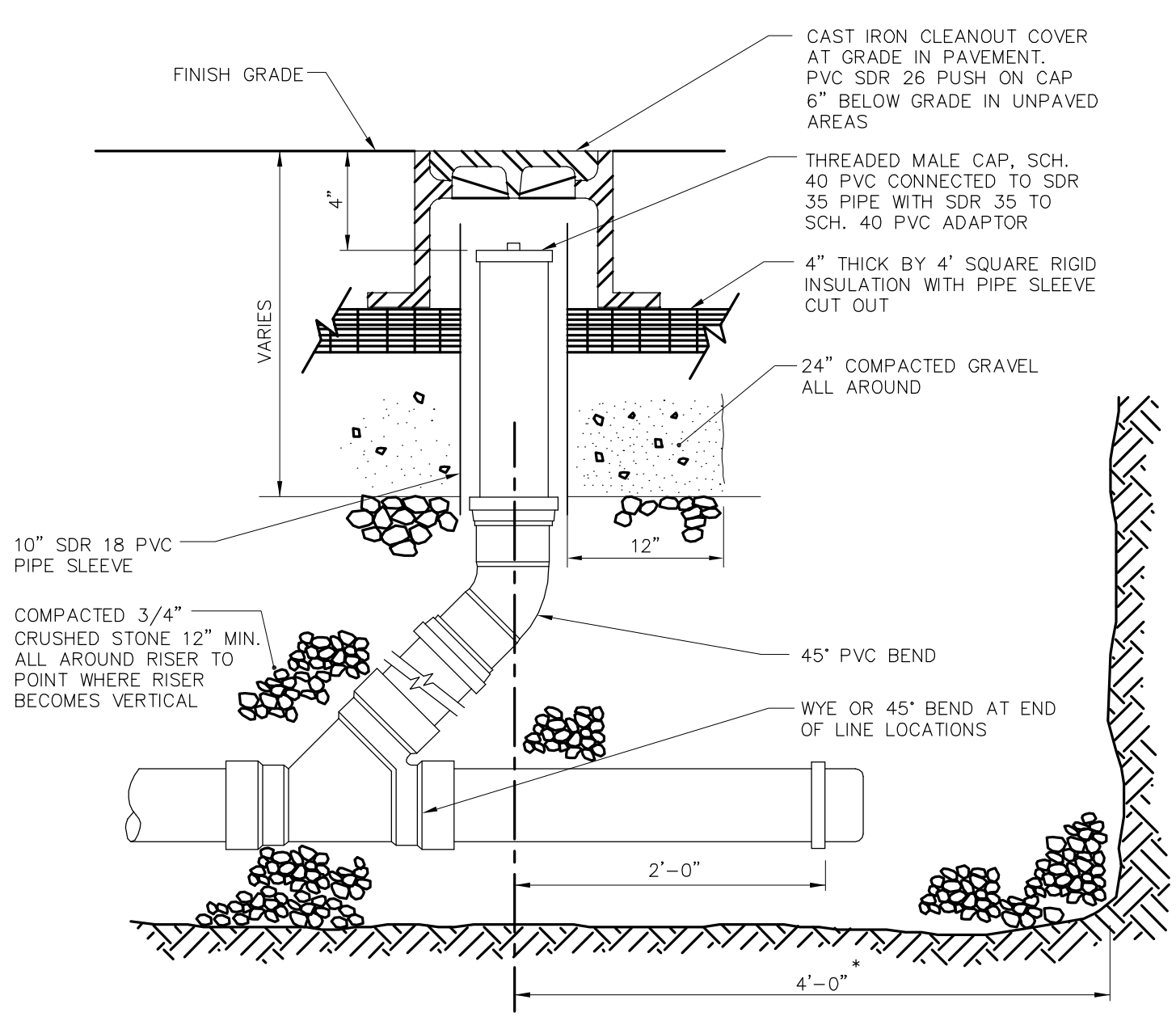
drawing title
PAVEMENT MARKING PLAN

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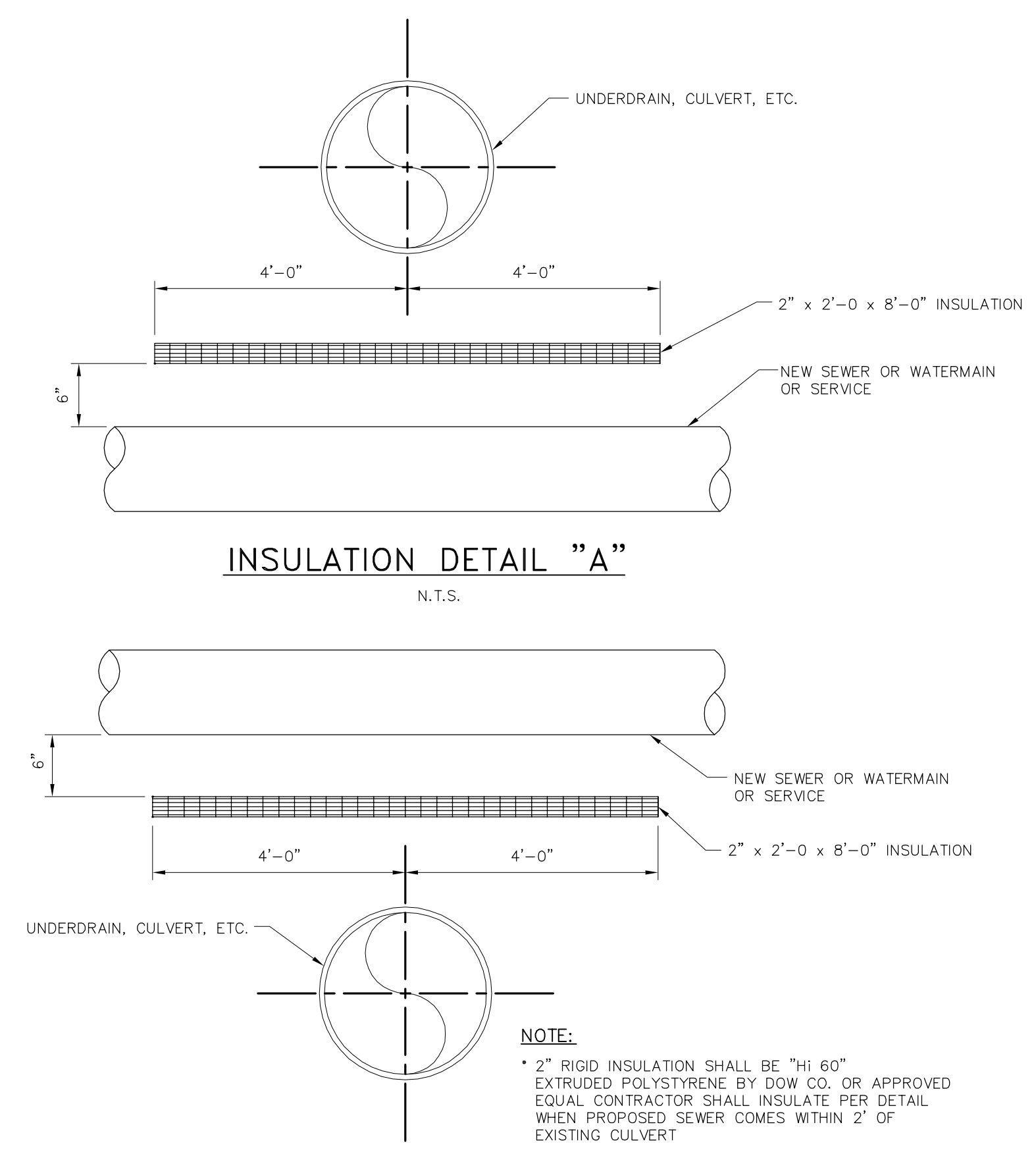
C210



SINGLE PIPE TRENCH DETAIL
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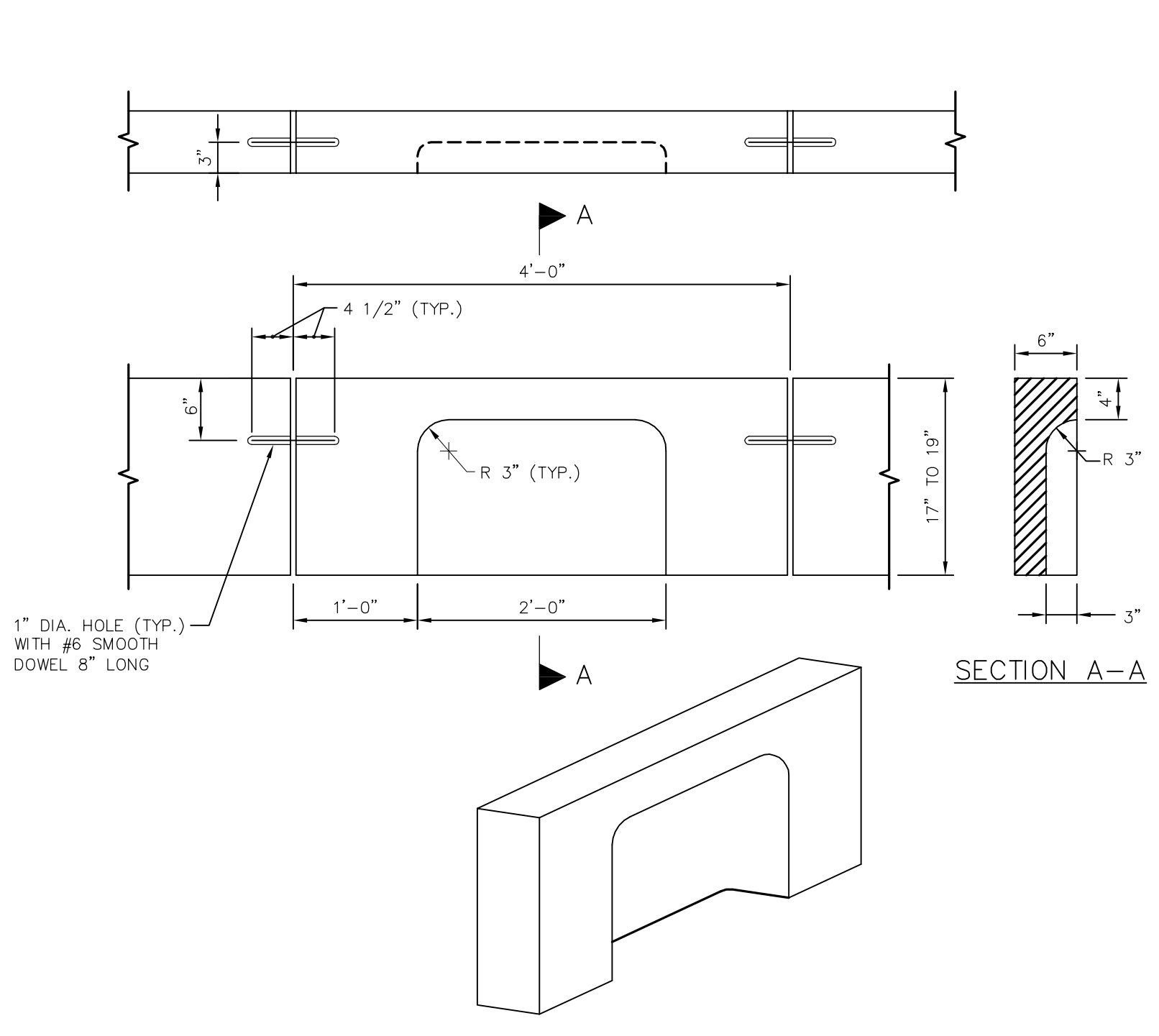


CLEANOUT DETAIL
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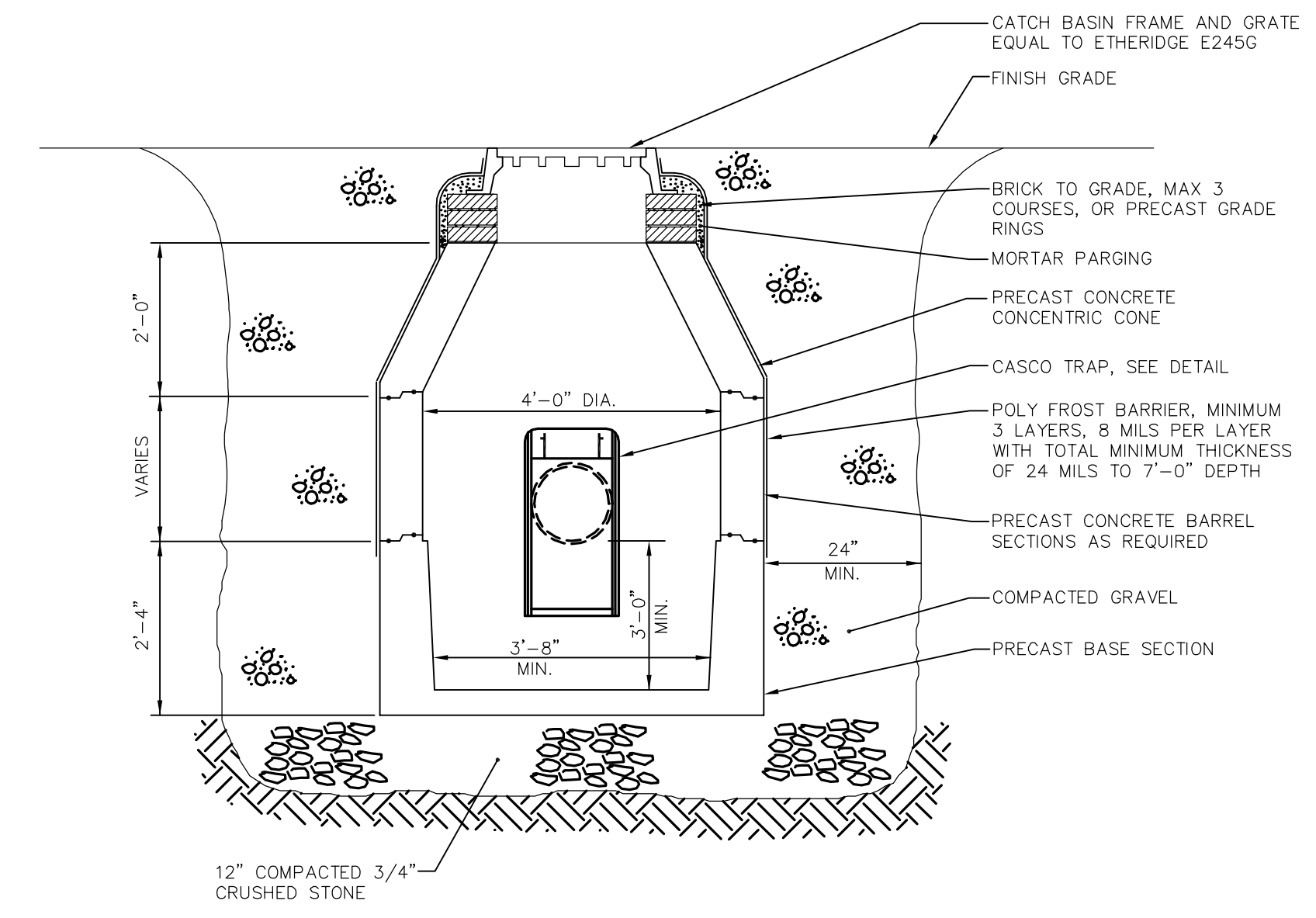


INSULATION DETAIL "A"
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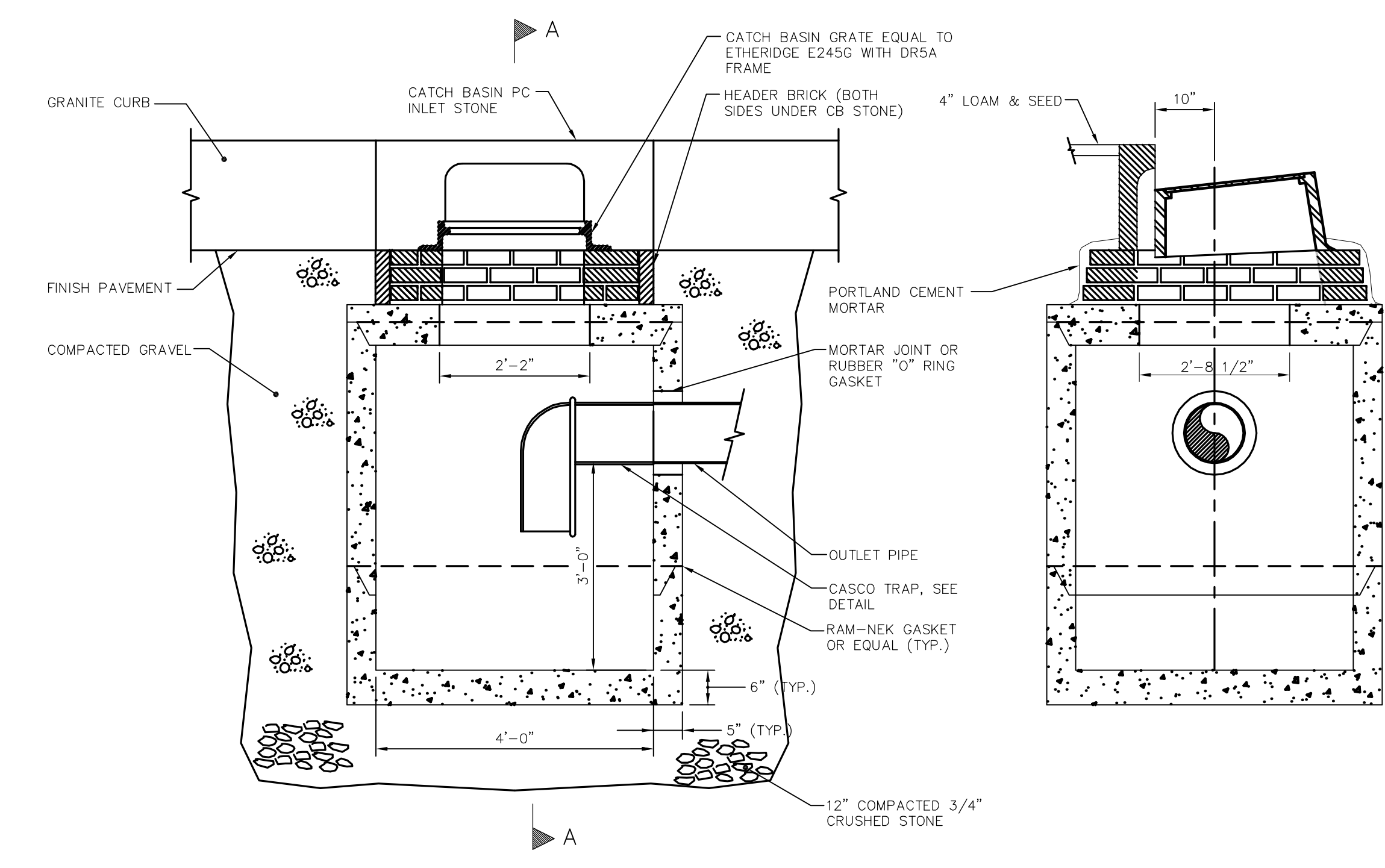
INSULATION DETAIL "B"
N.T.S.



CATCH BASIN PRECAST INLET STONE
N.T.S.



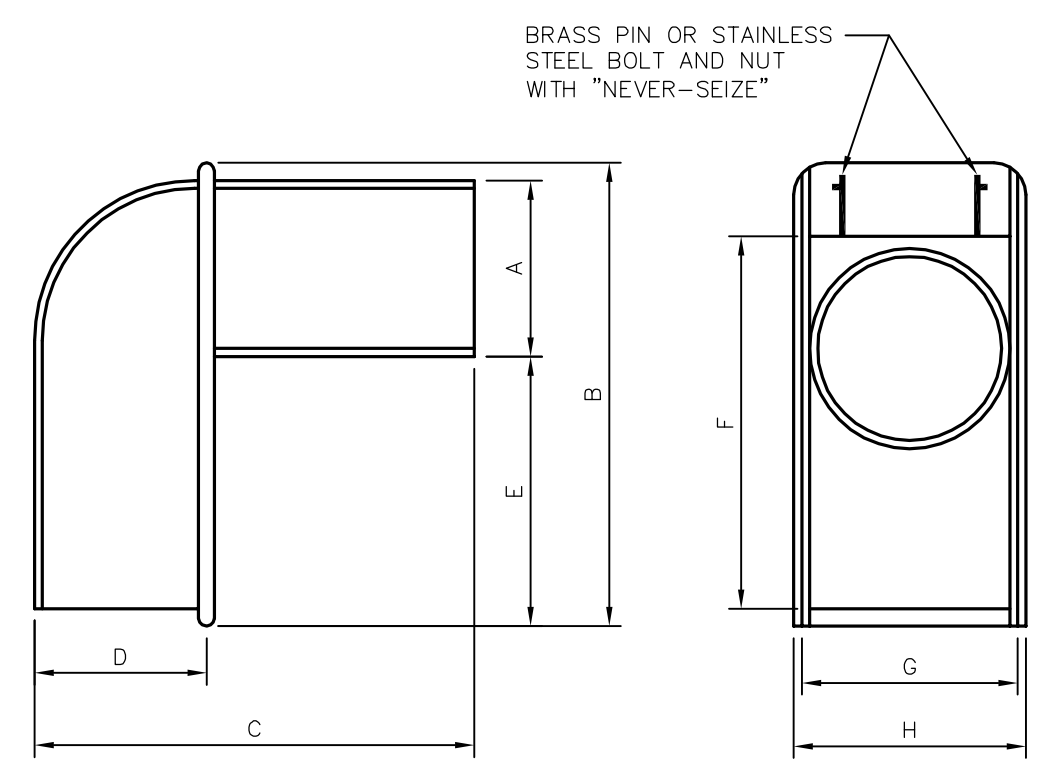
TYPICAL CATCH BASIN
N.T.S.



CROSS SECTION
N.T.S.

SECTION A-A

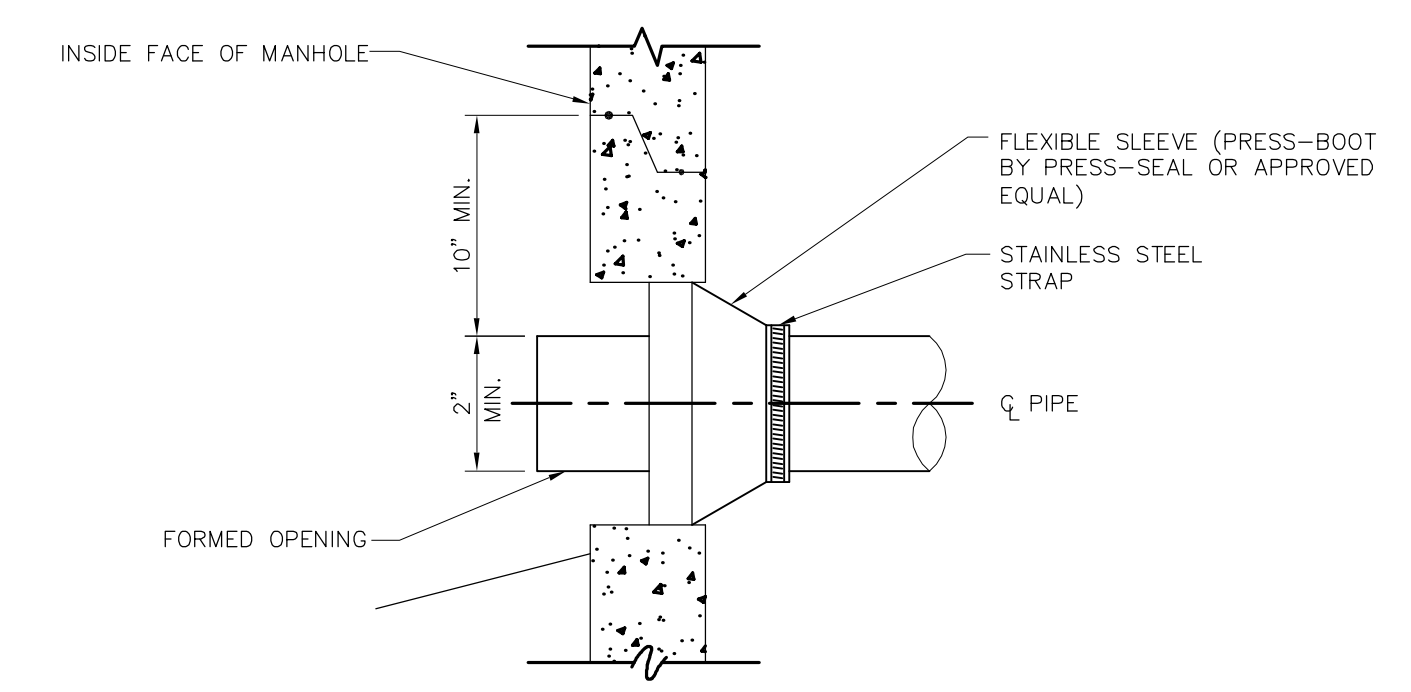
CURBSIDE CATCH BASIN
N.T.S.



SIZE	A	B	C	D	E	F	G	H
12"	11 1/2"	17"	22"	8"	3 1/2"	17"	12 1/2"	13 3/8"

- NOTE:**
- BOLT AND NUT REQUIRED WHERE HOOD WILL NOT OPEN COMPLETELY.
 - 18" CATCH BASIN TRAP SHALL BE NEENAH FOUNDRY R-3701-18, OR EQUAL.

CASCO TRAP DETAIL
N.T.S.



NEW PIPE TO EXISTING MANHOLE CONNECTION DETAIL - 4" TO 24"
N.T.S.

- MANHOLE AND CATCH BASIN GENERAL NOTES**
- ALL CONCRETE SHALL BE A CLASS "A" AND HAVE A MINIMUM ULTIMATE STRENGTH OF 4000 LBS PER SQ. INCH AT THE END OF 28 DAYS UNLESS OTHERWISE NOTED.
 - PRECAST REINFORCED CONE BARREL MANUFACTURE PER ASTM SPEC. C-478-67.
 - SEWER BRICK TO CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
 - ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTION OF BRICK MASONRY, THE SMOOTH MORTAR SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY MDOT SUPPLEMENTAL SPECIFICATIONS SECTION 604.
 - CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.
 - ALL MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY UNIQUE IDENTIFIER DEPICTED ON THE UTILITY PLANS. PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
 - STORM AND SEWER MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED HOLE.
 - EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SALVAGED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.

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Einhorn Yaffee Prescott
Architecture & Engineering P.C.
24 School Street
Boston, MA 02108
Telephone 617 305 9800
Fax 617 305 9888
eyppac.com

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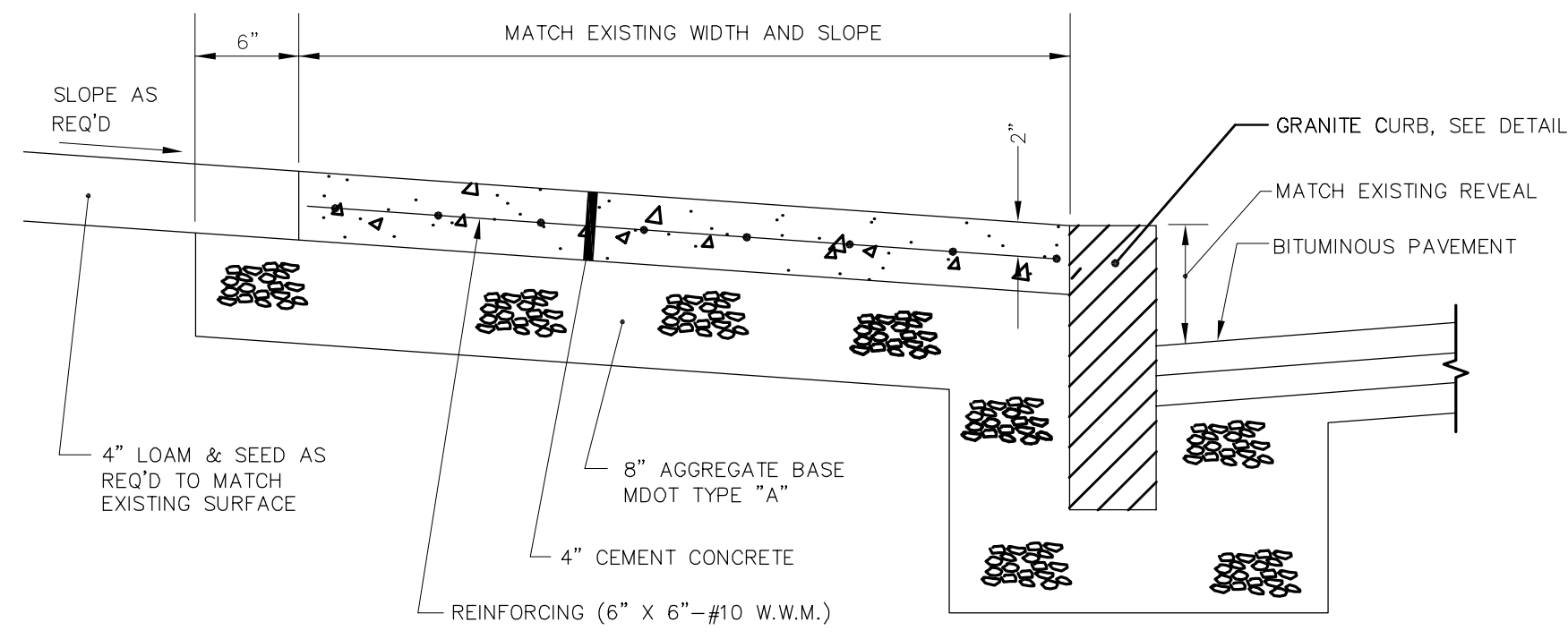
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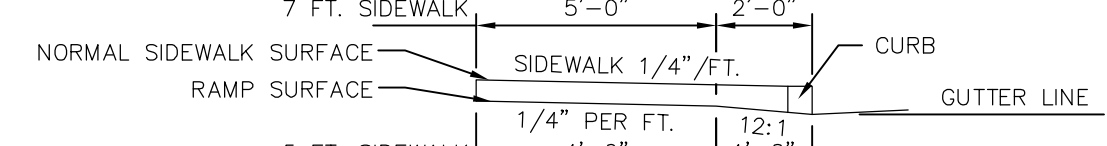
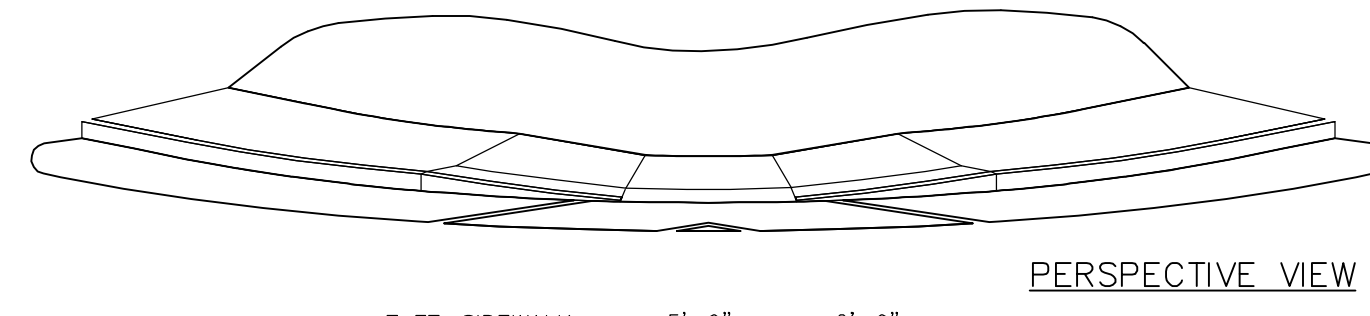
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	JBC		
	checked by	BSS	drawing no.
	date		C301
	1/19/2004		
	scale		
	AS NOTED		

ADA ACCESSIBLE CURB RAMP GENERAL NOTES

1. WHEN THE SIDEWALK IS LESS THAN 5'-0" IN WIDTH, A MINIMUM PAD 5'-0" x 5'-0" SLOPING NO MORE THAN 1/4" PER FOOT SHALL BE PROVIDED WHENEVER A CHANGE IN DIRECTION MUST BE MADE.
2. THERE SHALL BE A MINIMUM OF 12" AGGREGATE SUBBASE COURSE—GRAVEL UNDER THE 2" PAVEMENT ON PEDESTRIAN RAMPS.
3. CURB OPENINGS FOR PEDESTRIAN RAMPS SHALL BE 6' MINIMUM.

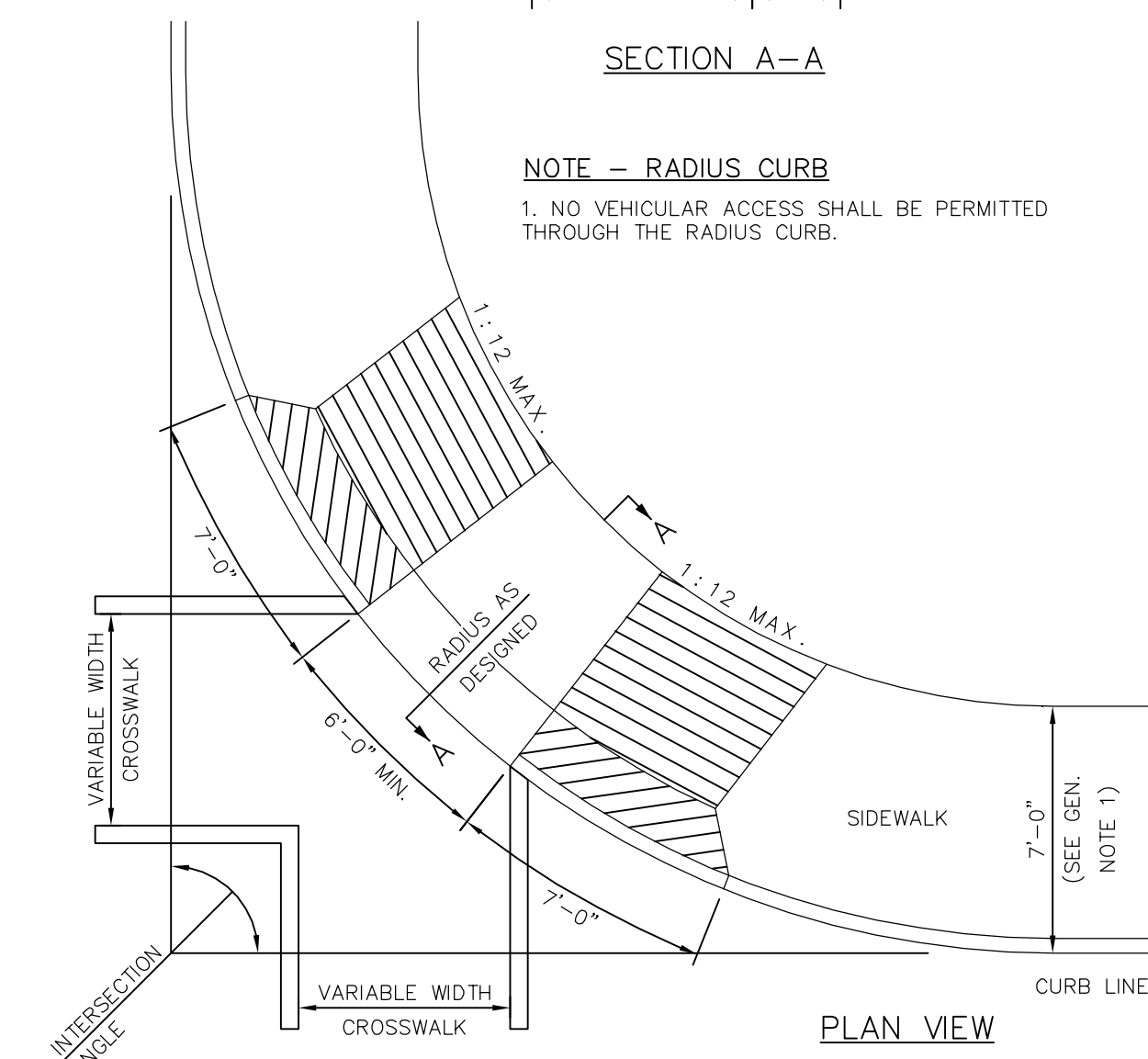


CONCRETE SIDEWALK DETAIL
N.T.S.

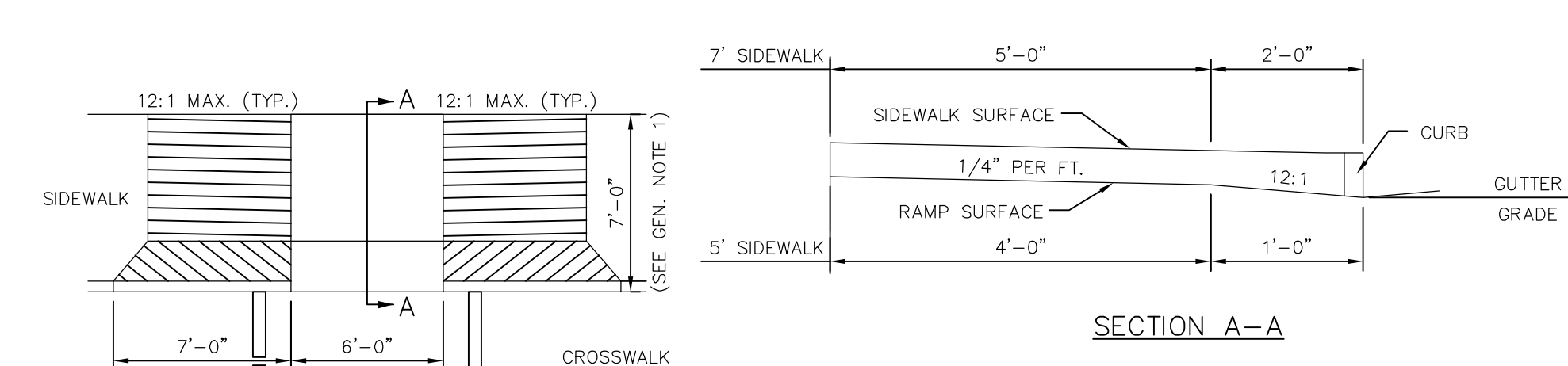
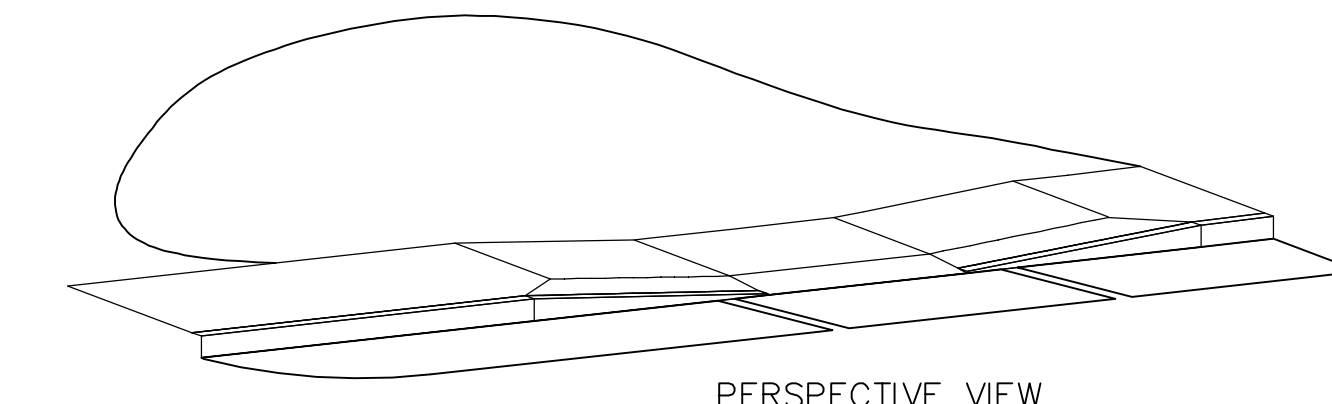


NOTE - RADIUS CURB

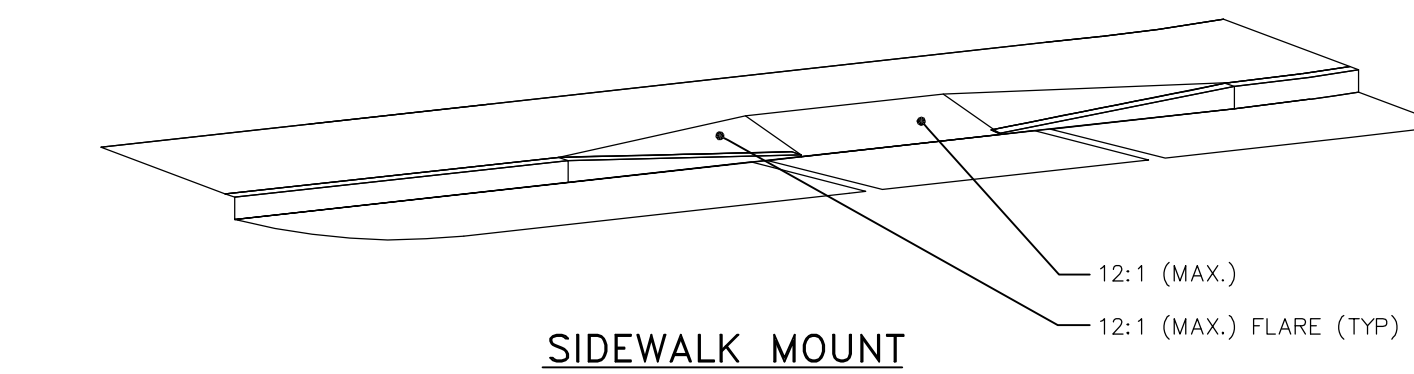
1. NO VEHICULAR ACCESS SHALL BE PERMITTED THROUGH THE RADIUS CURB.



RADIUS CURB

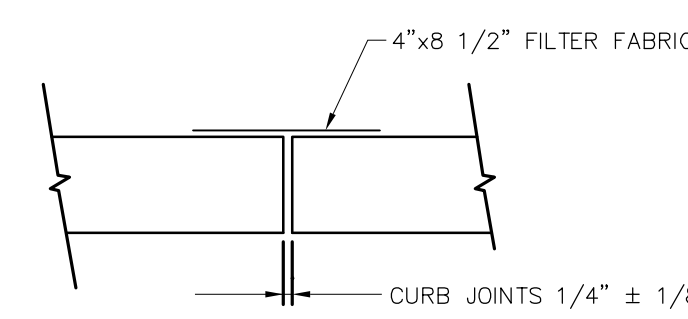


WALK THROUGH



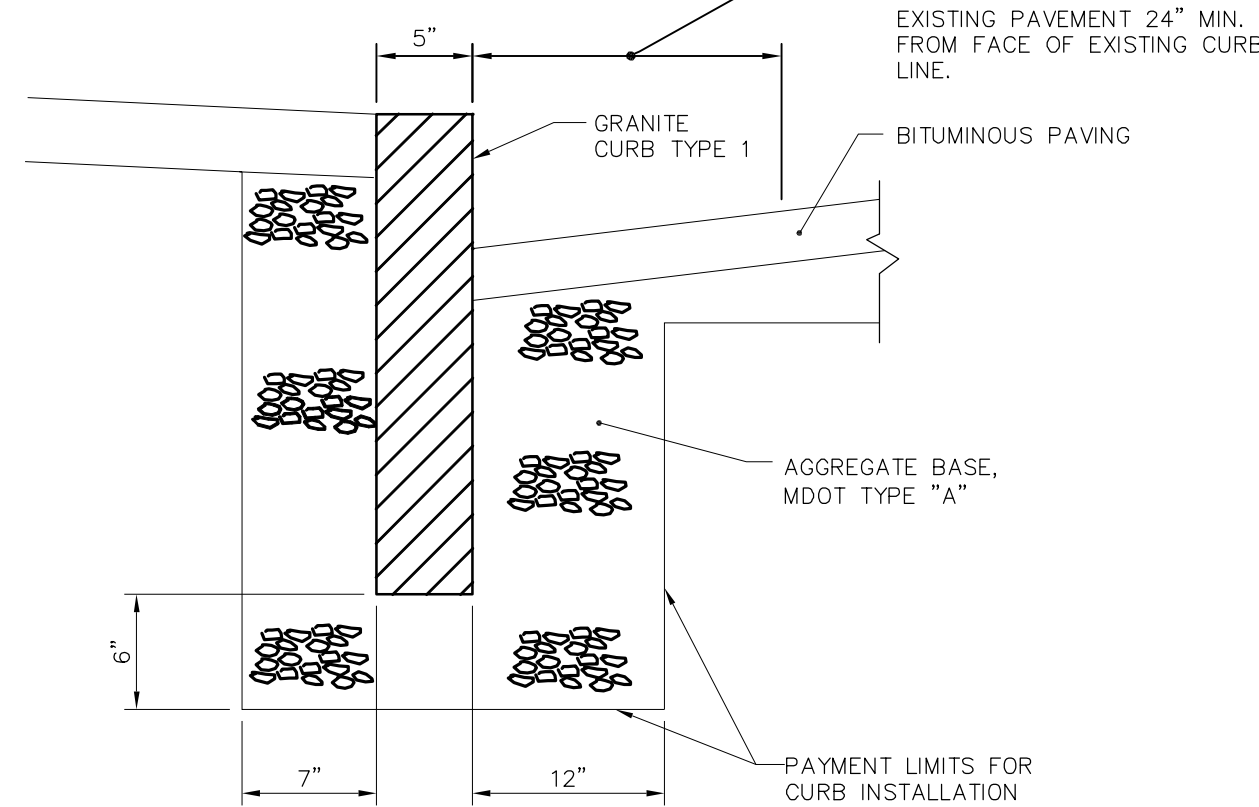
SIDEWALK MOUNT

ADA ACCESSIBLE CURB RAMP
N.T.S.



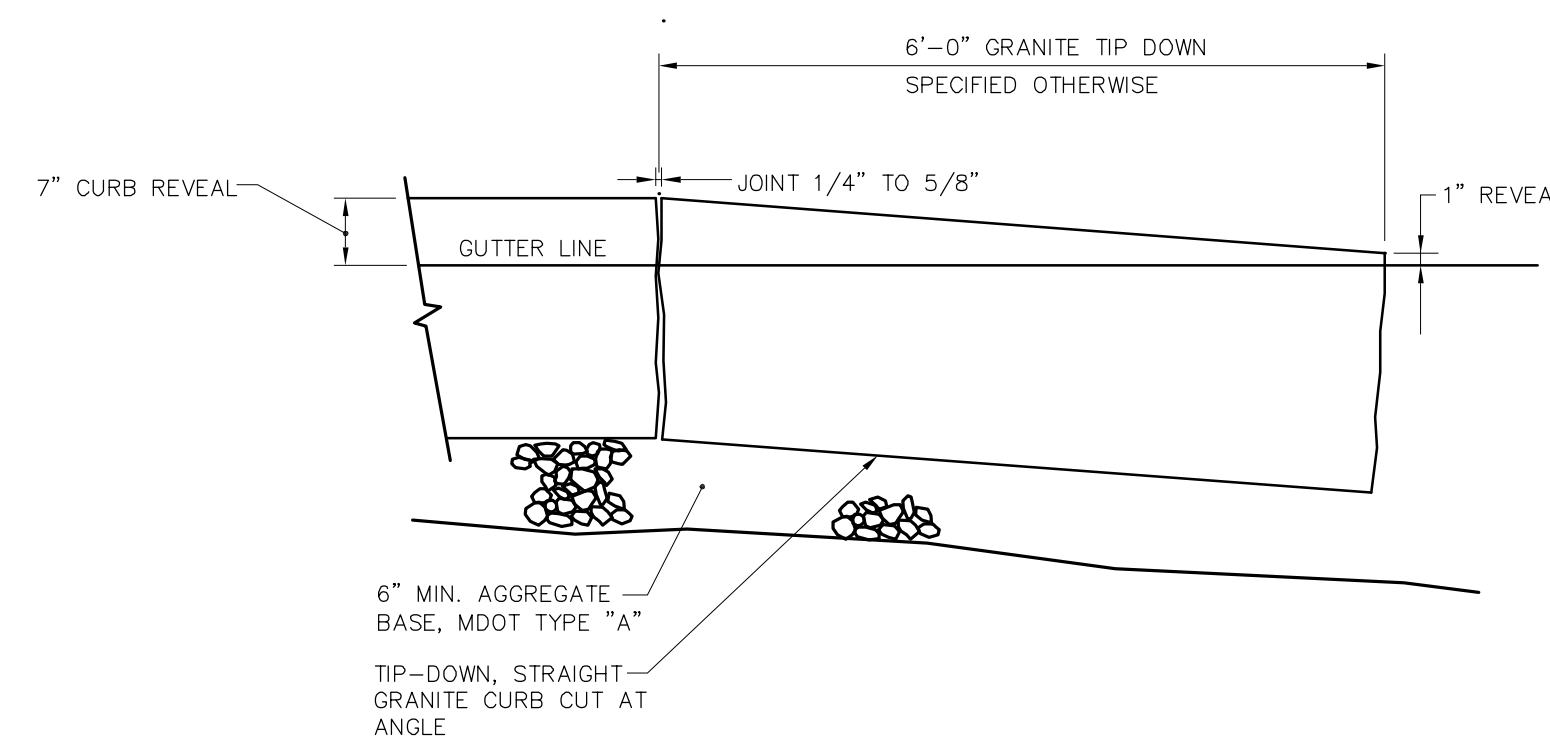
PLAN

FOR NEW GRANITE CURB IN AREAS NOT INTENDED FOR OVERLAY OR PAVING SAWCUT EXISTING PAVEMENT 24" MIN. FROM FACE OF EXISTING CURB LINE.

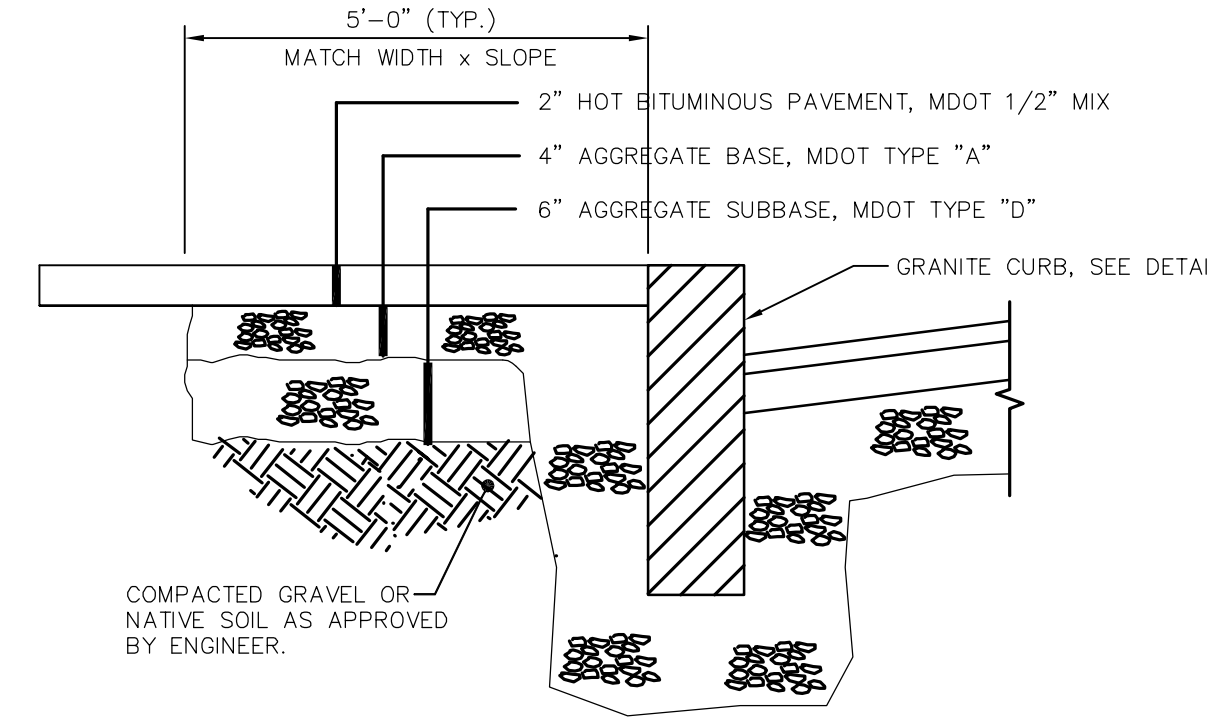


SECTION

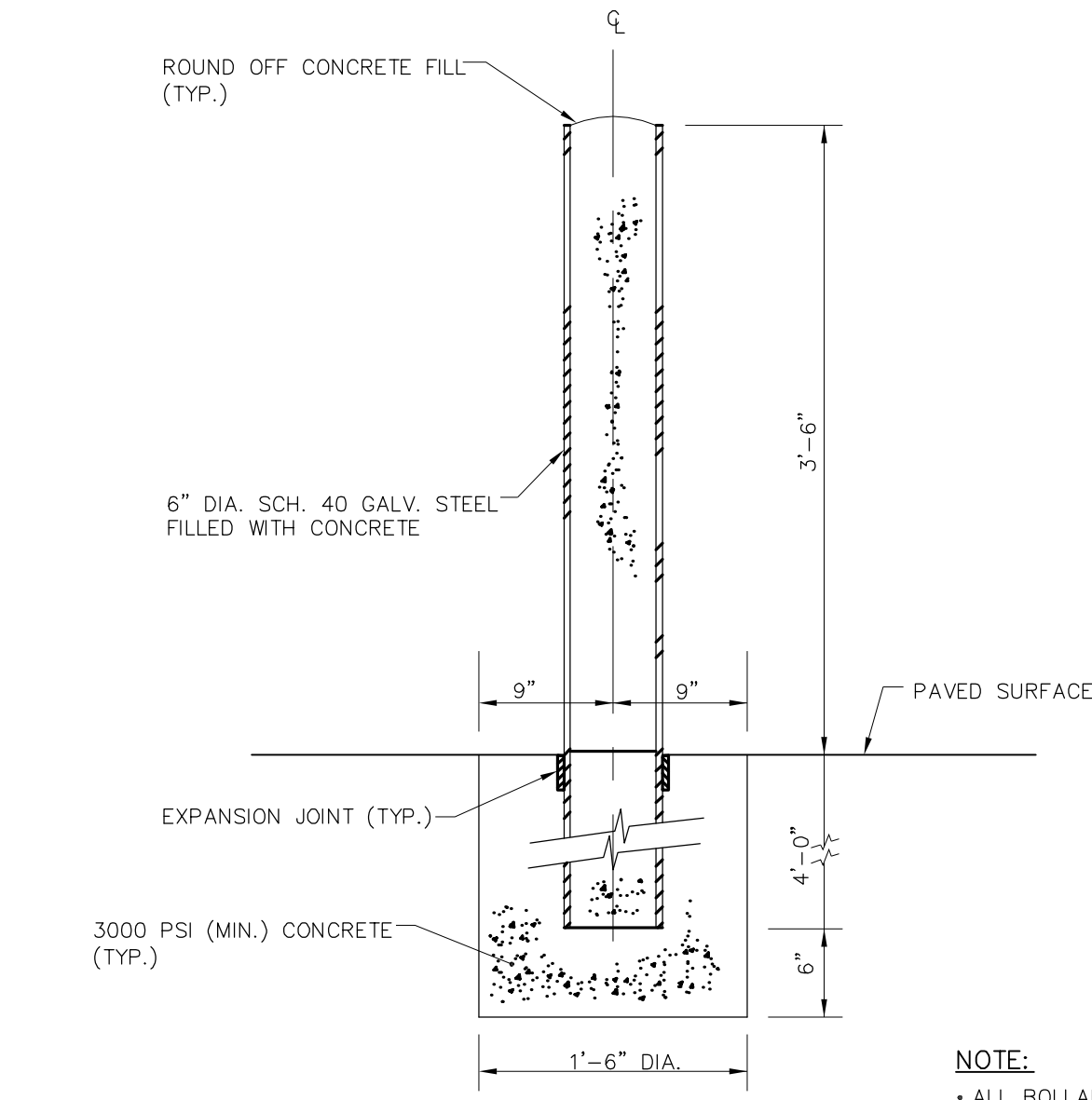
GRANITE CURB INSTALLATION
N.T.S.



GRANITE TIP-DOWN CURB
N.T.S.



BITUMINOUS SIDEWALK DETAIL
N.T.S.



BOLLARD DETAIL
N.T.S.

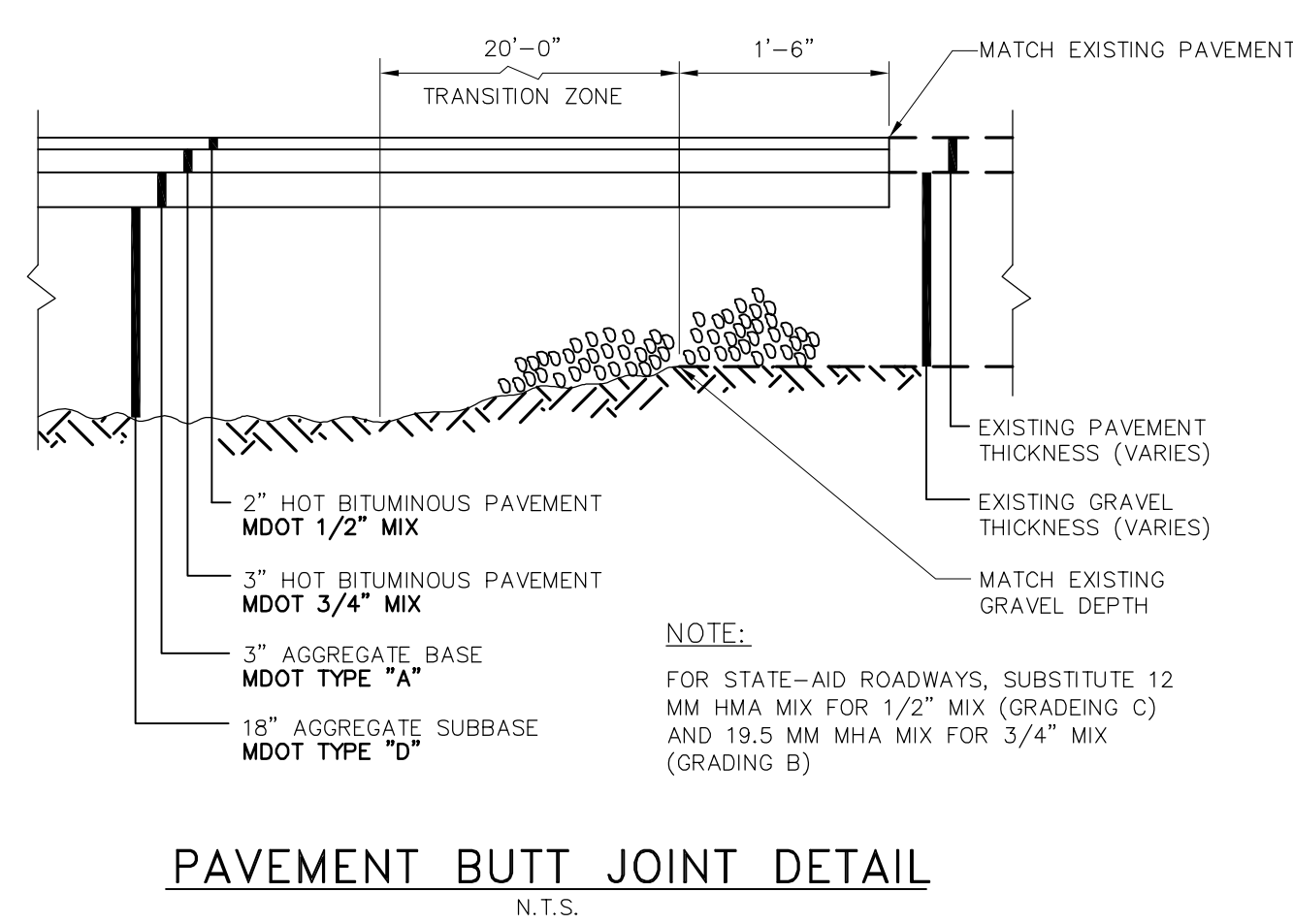
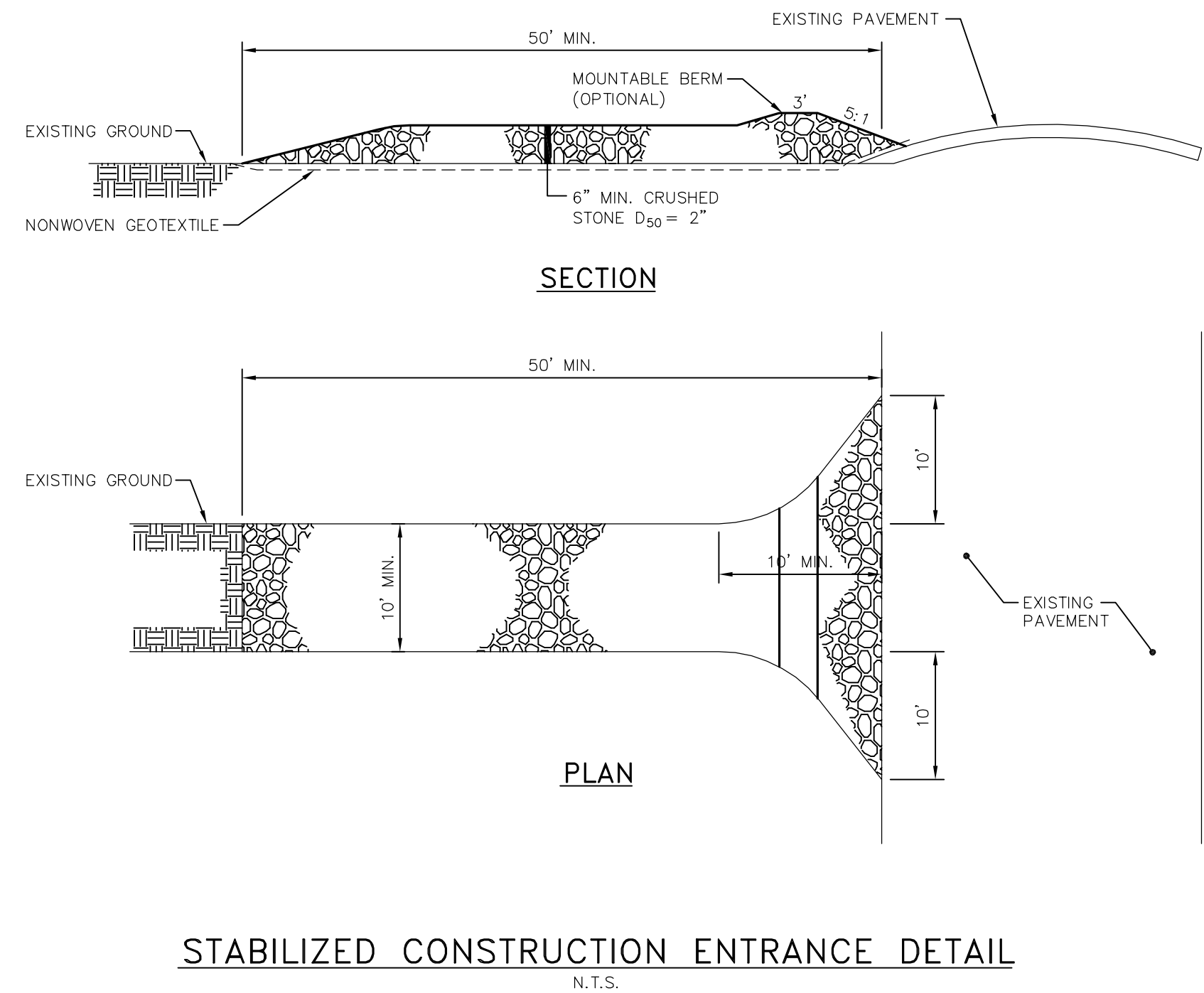
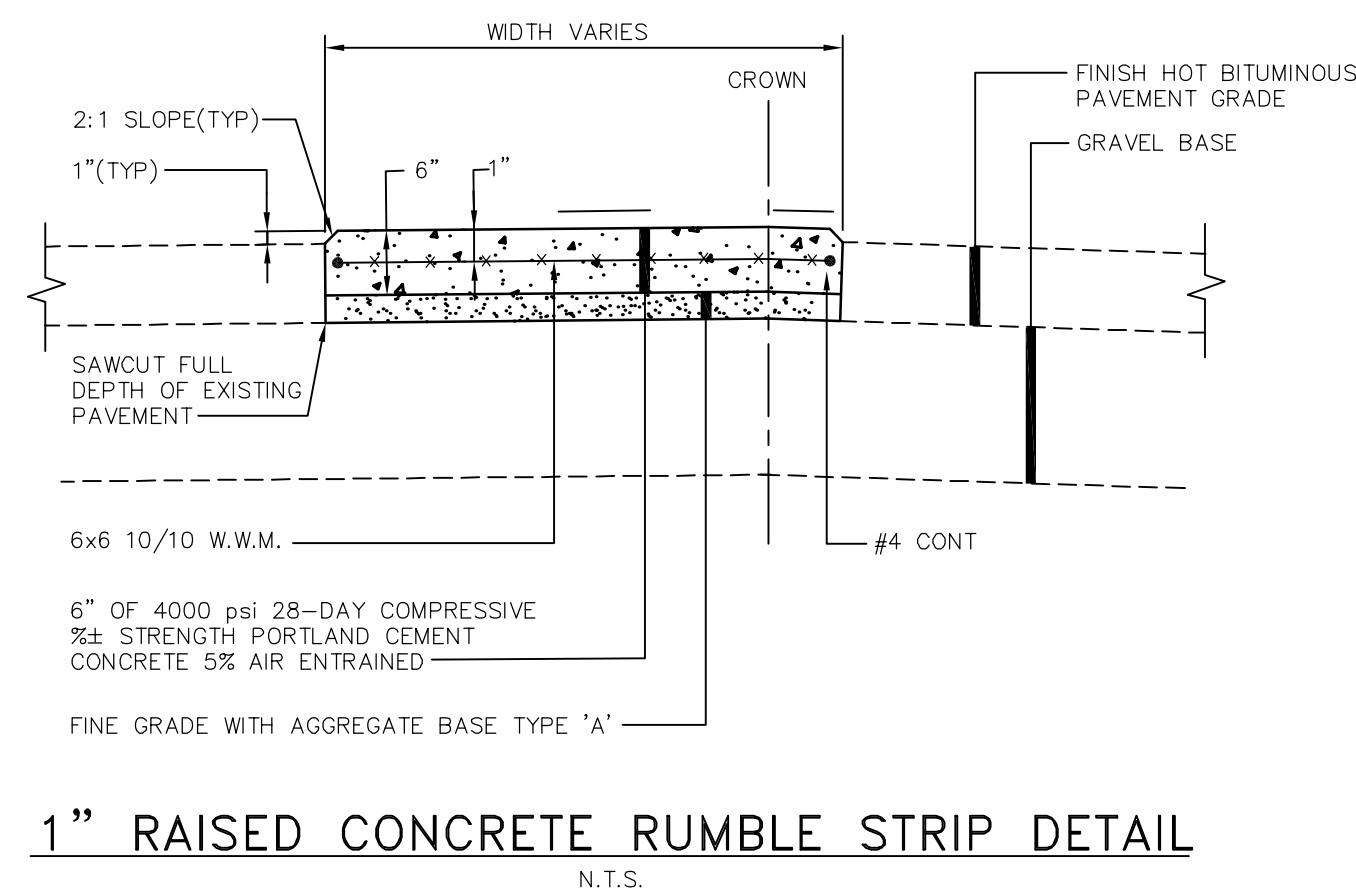
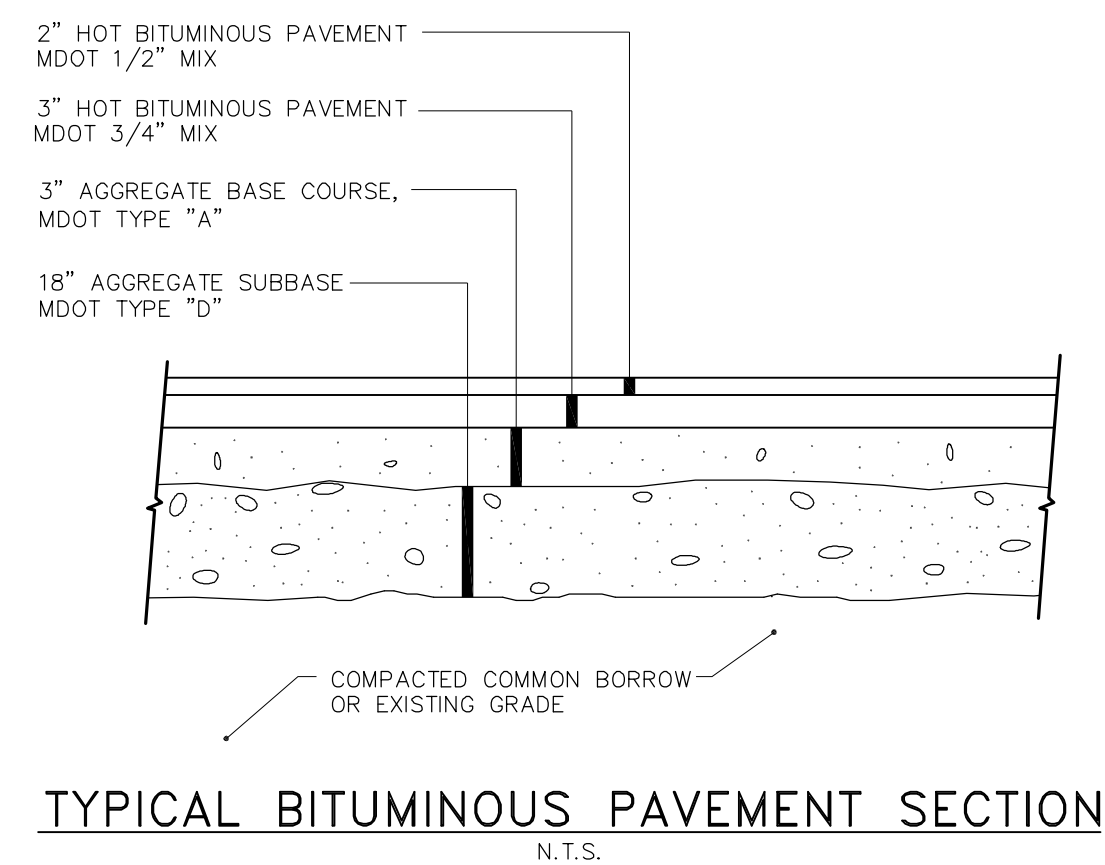
GMP DOCUMENTS	1/19/04
no. revisions/submissions	date

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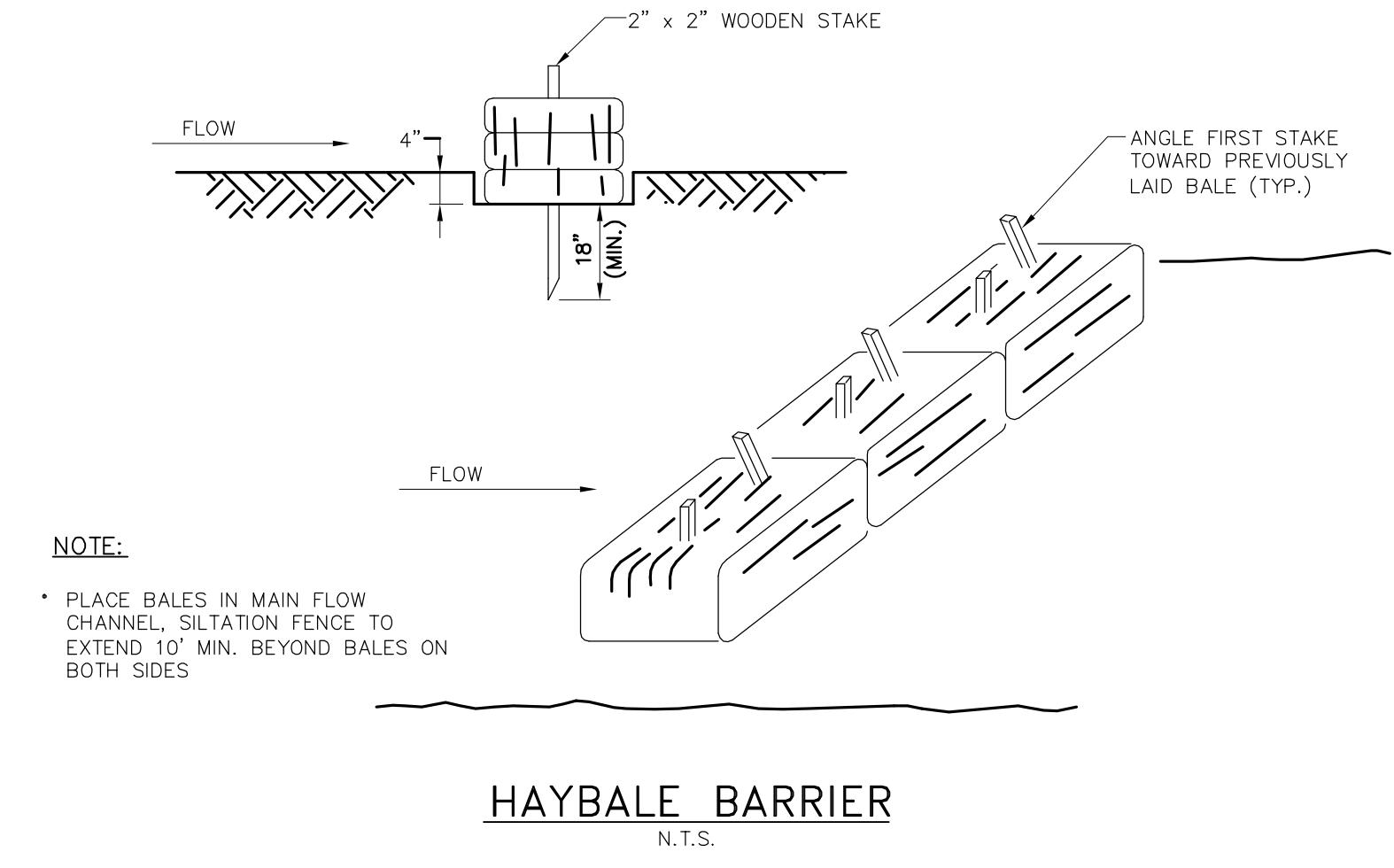
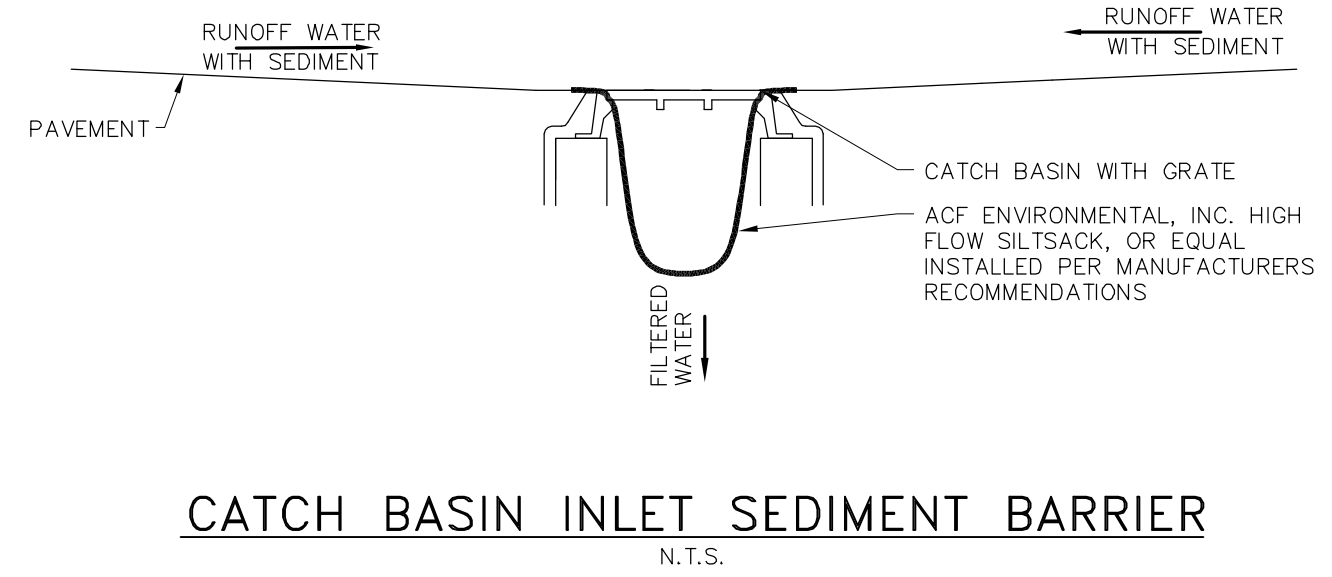
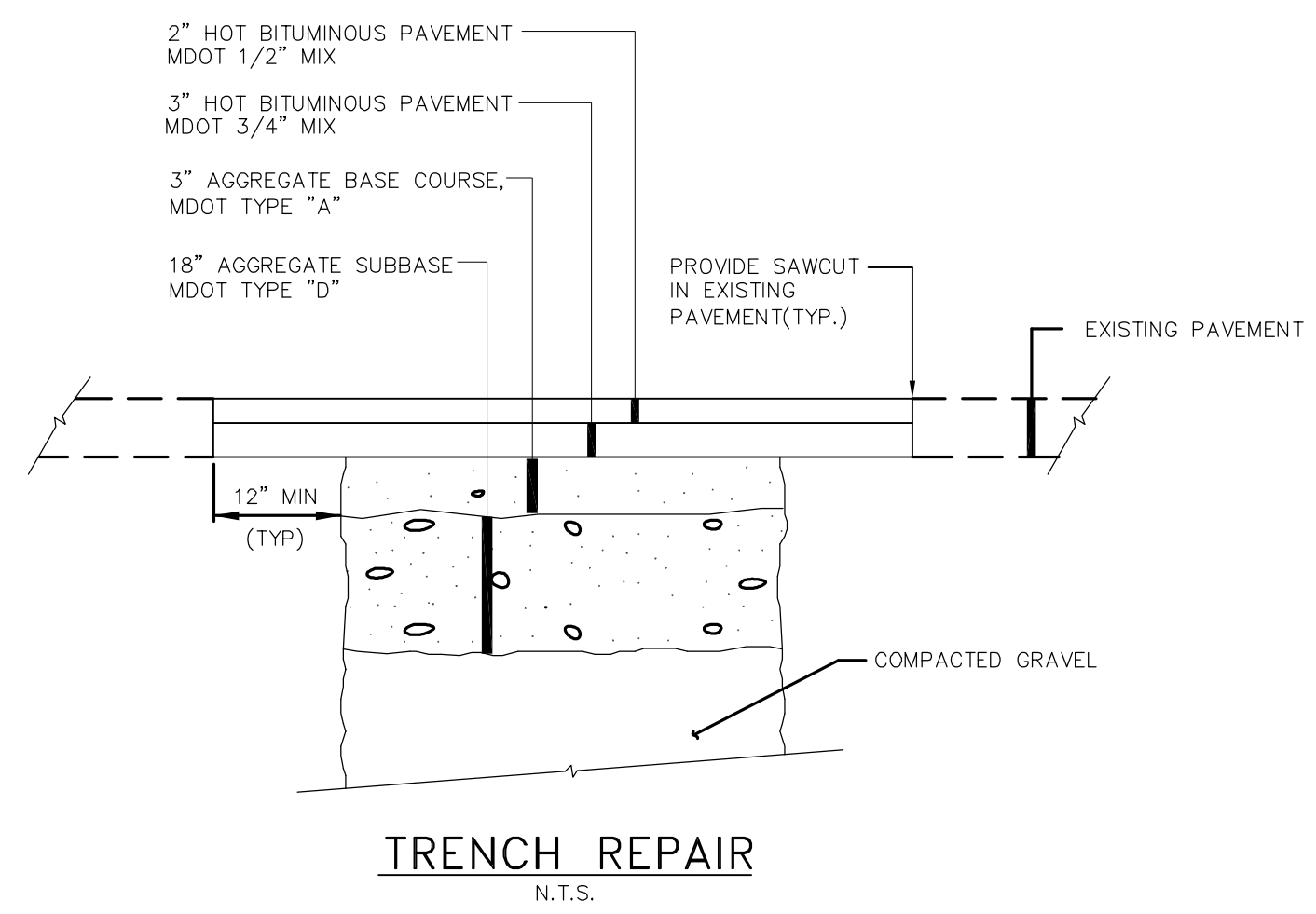
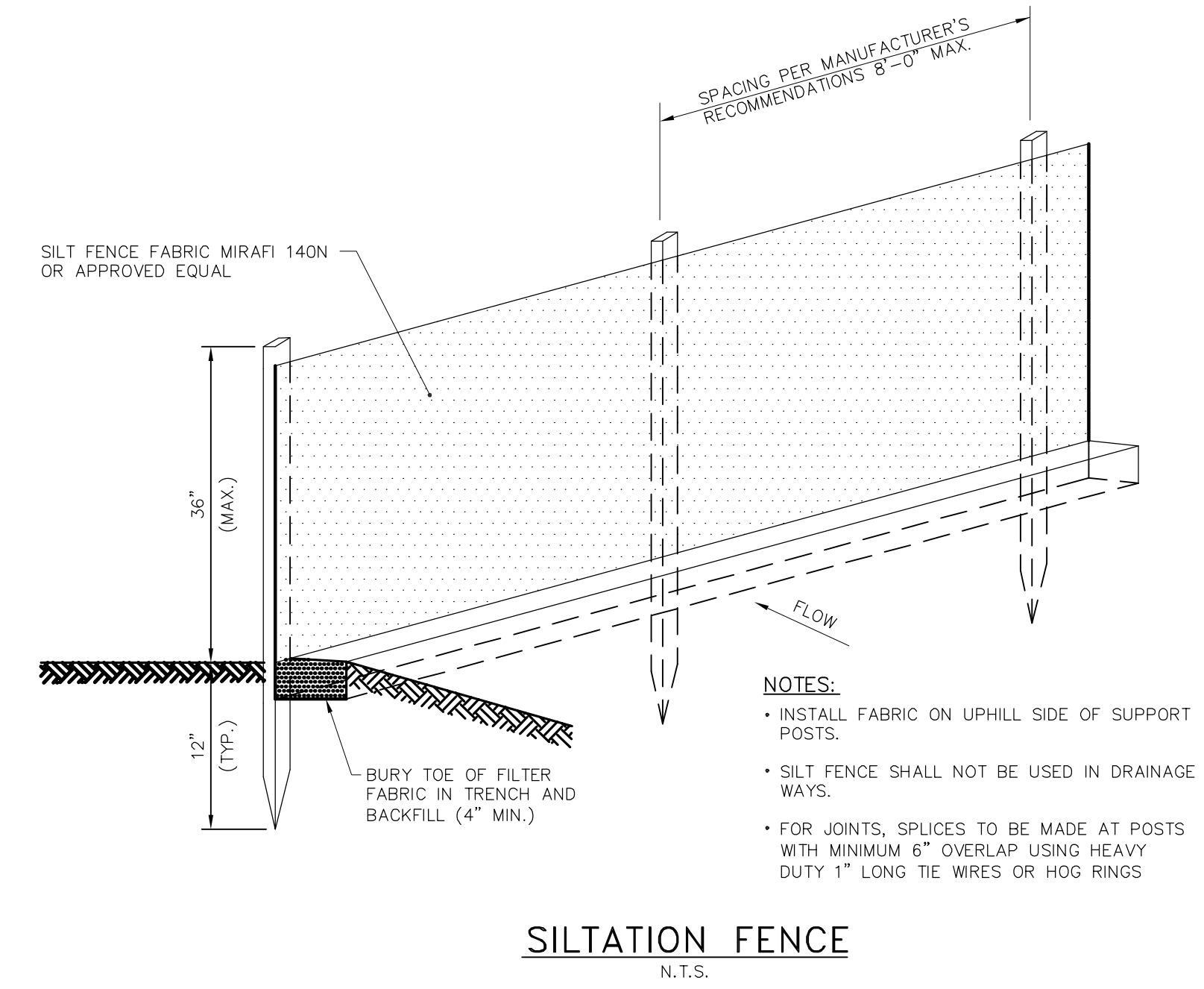
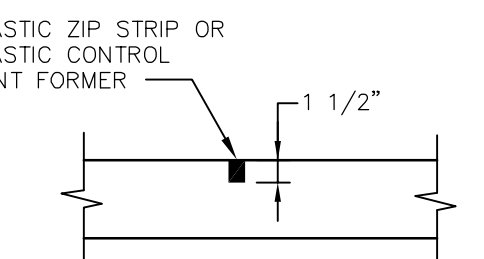
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drawing title		CIVIL DETAILS 2	
seal	designed by KRV/BSS	project no.	5001024.00
	drawn by JBC	CAD file no.	WC 20339402-C30A-50
	checked by BSS	drawing no.	
	date 1/19/2004	C302	
	scale AS NOTED		



- RUMBLE STRIP NOTES:**
1. CONSTRUCT CONCRETE MEDIAN TO 1" ABOVE PROPOSED GRADE.
 2. CONCRETE SURFACE TO HAVE PROTECTIVE COATING FOR CONCRETE SURFACES.
 3. SURFACE SHALL BE RAKED TO FORM A RUMBLE SURFACE AS DIRECTED BY THE ENGINEER.
 4. CONTROL JOINTS SHALL BE CONSTRUCTED WITH A ZIP STRIP PLACED TRANSVERSLY AT 10' ON CENTERS.



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drawing title		
CIVIL DETAILS 3		
seal	designed by KRV/BSS	project no. 5001024.00
	drawn by JBC	CAD file no. WC\20339402-C30A-50
	checked by BSS	drawing no.
	date 1/19/2004	C303
	scale AS NOTED	

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MANHOLE AND CATCH BASIN GENERAL NOTES

1. ALL CONCRETE SHALL BE A CLASS "A" AND HAVE A MINIMUM ULTIMATE STRENGTH OF 4000 LBS PER SQ. INCH AT THE END OF 28 DAYS UNLESS OTHERWISE NOTED
2. PRECAST REINFORCED CONE BARREL MANUFACTURE PER ASTM SPEC. C-478-67
3. SEWER BRICK TO CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
4. ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTION OF BRICK MASONRY, THE SMOOTH MORTAR SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY MDT SUPPLEMENTAL SPECIFICATIONS SECTION 604.
5. CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.
6. ALL MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY UNIQUE IDENTIFIER DEPICTED ON THE UTILITY PLANS. PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
7. STORM AND SEWER MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED HOLE.
8. EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SALVAGED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.

GMP DOCUMENTS	1/19/04
no. revisions/submissions	date

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 Telephone 617 305 9800
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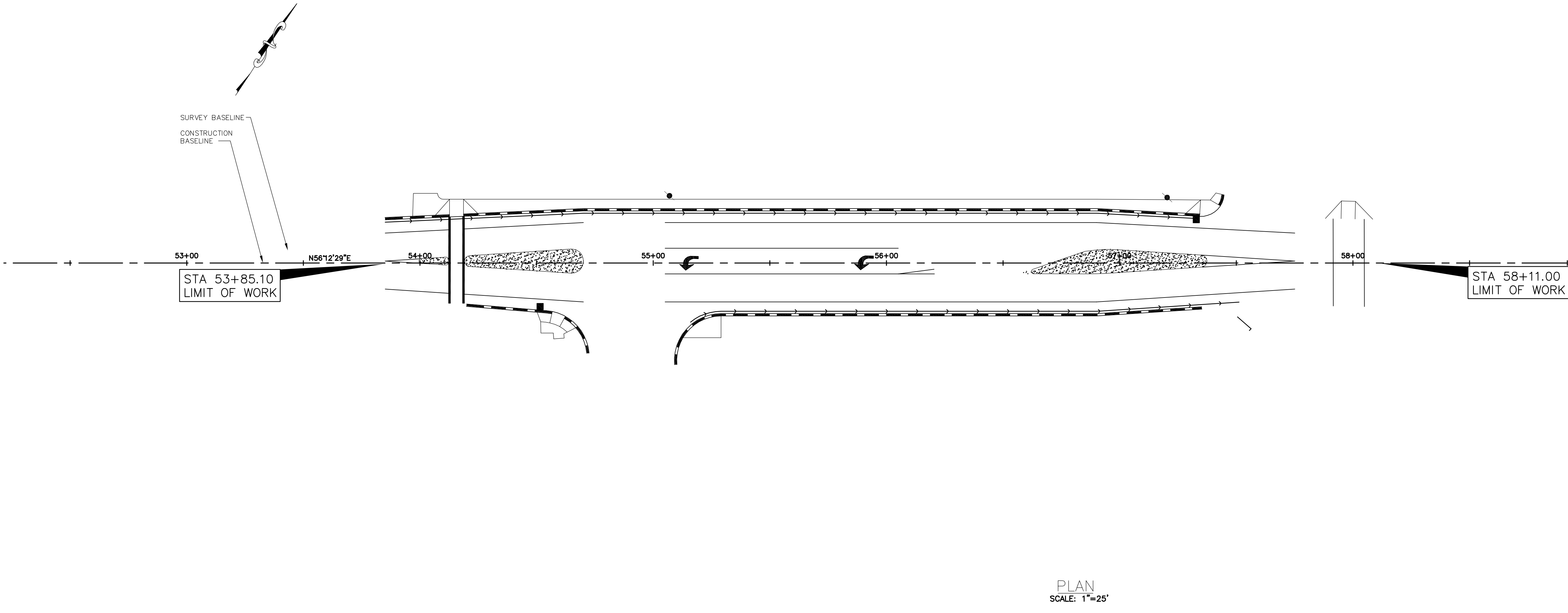
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	date 1/19/2004		
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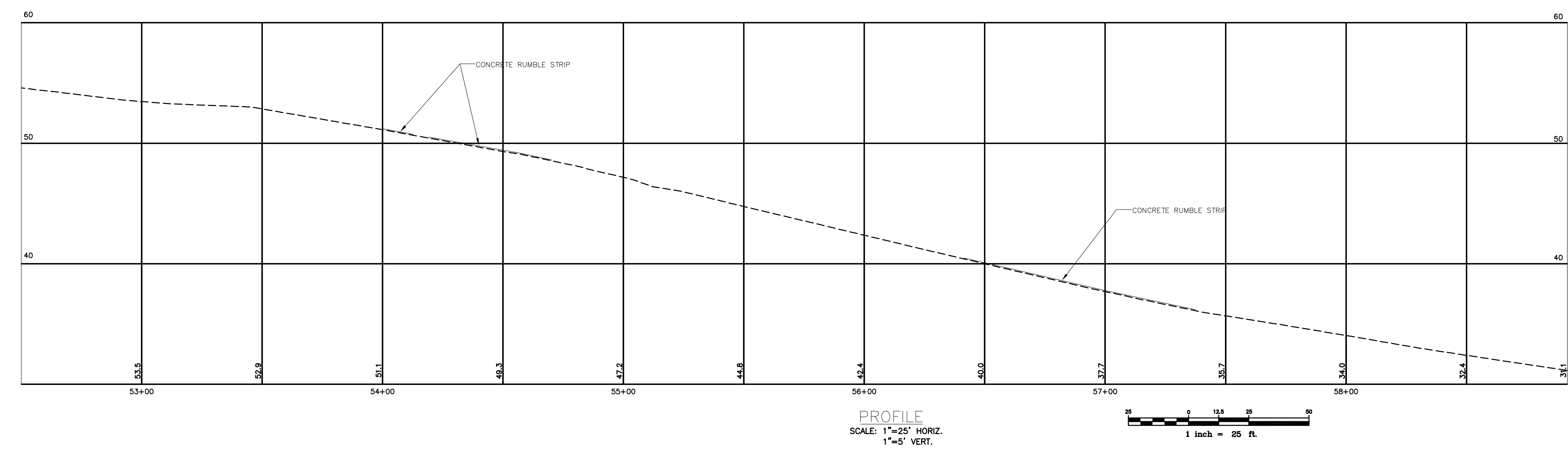
F.M.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	MDOT PIN	1	XX

PORTLAND BEDFORD STREET

NOTE:
ROADWAY CONSTRUCTION ON BEDFORD STREET IS LIMITED TO WORK NORTH OF AND INCLUDING EXISTING NORTHERLY CURBLINE BETWEEN STATION 53+85 AND STATION 57+45 CONSTRUCTION BASELINE WEST, AND INCLUSIVE OF PARKING LOT EXIT CURB RETURN.



PLAN
SCALE: 1"=25'



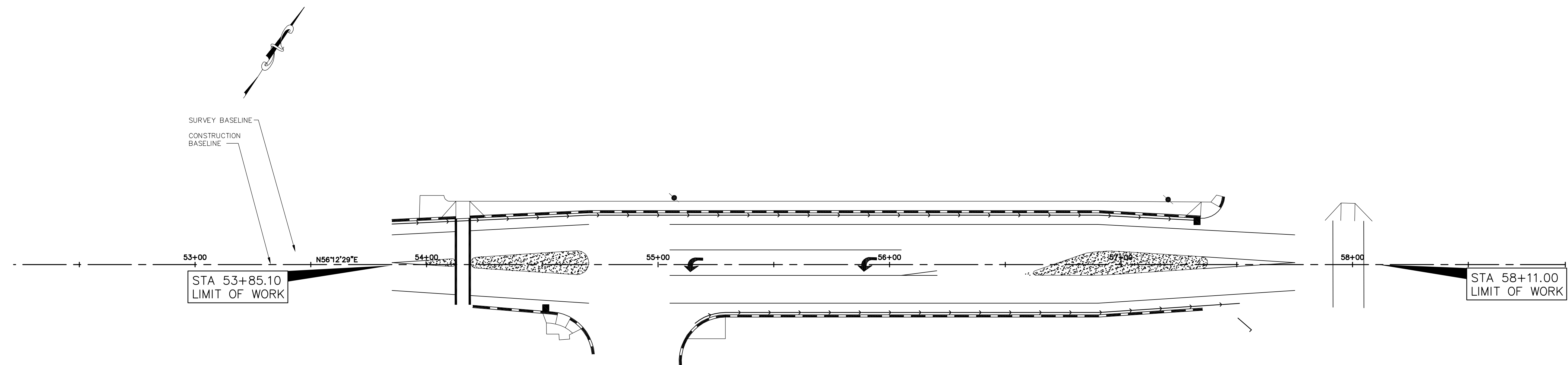
PROFILE
SCALE: 1"=25' HORIZ.
1"=5' VERT.

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<p>Einhorn Yaffee Prescott Architecture & Engineering P.C. 24 School Street Boston, MA 02108 Telephone: 617 305 9800 Fax 617 305 9888 eyppae.com</p>		
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<p>Gp Gorrill-Palmer Consulting Engineers, Inc. PO Box 1237 Traffic and Civil Engineering Services 207-657-6910 15 Shaker Road Gray, ME 04039 FAX: 207-657-6912 E-Mail: mailbox@gorrillpalmer.com</p>		
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drawing title GEOMETRIC PLAN		
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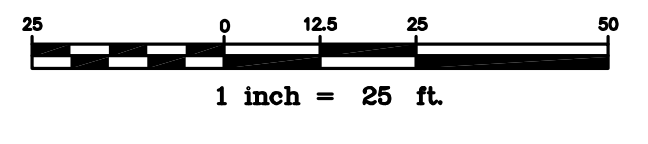
drawing no.
C203

FANEA REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	MDOT PIN	1	XX

PORTLAND BEDFORD STREET



PLAN
SCALE: 1"=25'



STRIPING LEGEND	
SIGNAGE, STRIPING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REGARDING SIZE, INSTALLATION, LOCATION & REFLECTIVITY.	
24"SL	- 24" WIDTH STOP LINE
4"SWL	- 4" WIDTH SOLID WHITE LANE LINE
4"DWL	- 4" WIDTH SOLID YELLOW LANE LINE
4"DYCL	- 4" WIDTH DOUBLE YELLOW CENTERLINE
4"DWLL	- 4" WIDTH DASHED WHITE LANE LINE
8"SWL	- 8" WIDTH SOLID WHITE LINE
4"SYLL	- 4" WIDTH SOLID YELLOW LANE LINE

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Architecture & Engineering P.C.
24 School Street
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Telephone: 617 305 9800
Fax 617 305 9888
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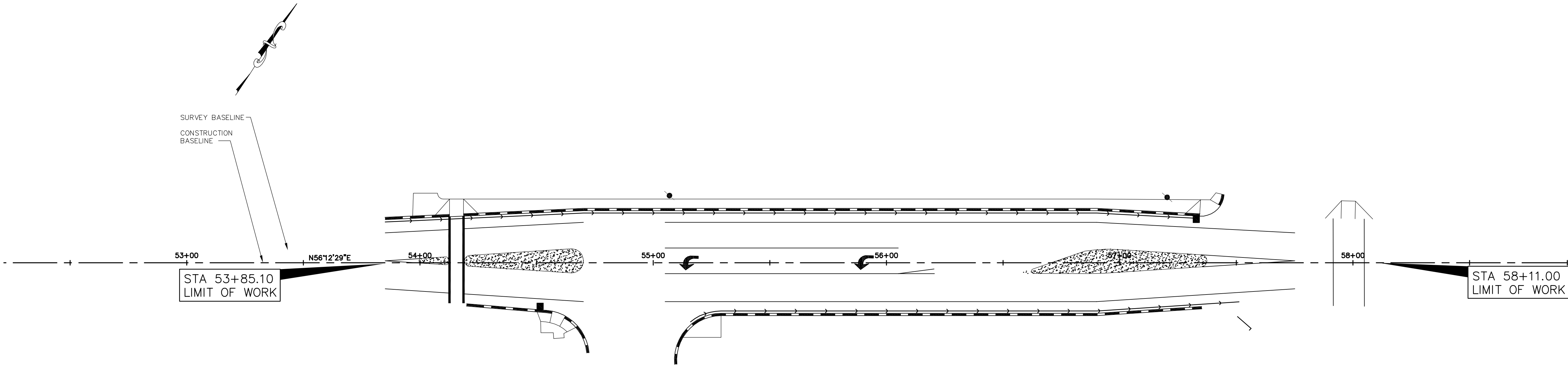
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drawing title **PAVEMENT MARKING PLAN**

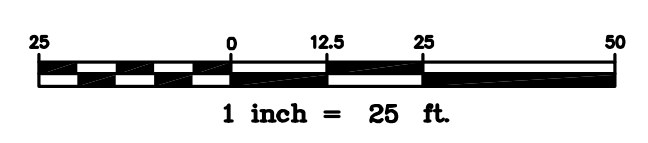
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	date 1/19/2004	
	scale AS NOTED	

drawing no.
C204

FED. AID PROJ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	MDOT PIN	C206	XX
PORTLAND BEDFORD STREET				



PLAN
SCALE: 1"=25'



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n.o. revisions/submissions	date

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Architecture & Engineering P.C.
24 School Street
Boston, MA 02108
Telephone: 617 305 9800
Fax 617 305 9888
eypa.com

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PO Box 1237 Traffic and Civil Engineering Services 207-657-6910
15 Shaker Road Gray, ME 04039 FAX: 207-657-6912
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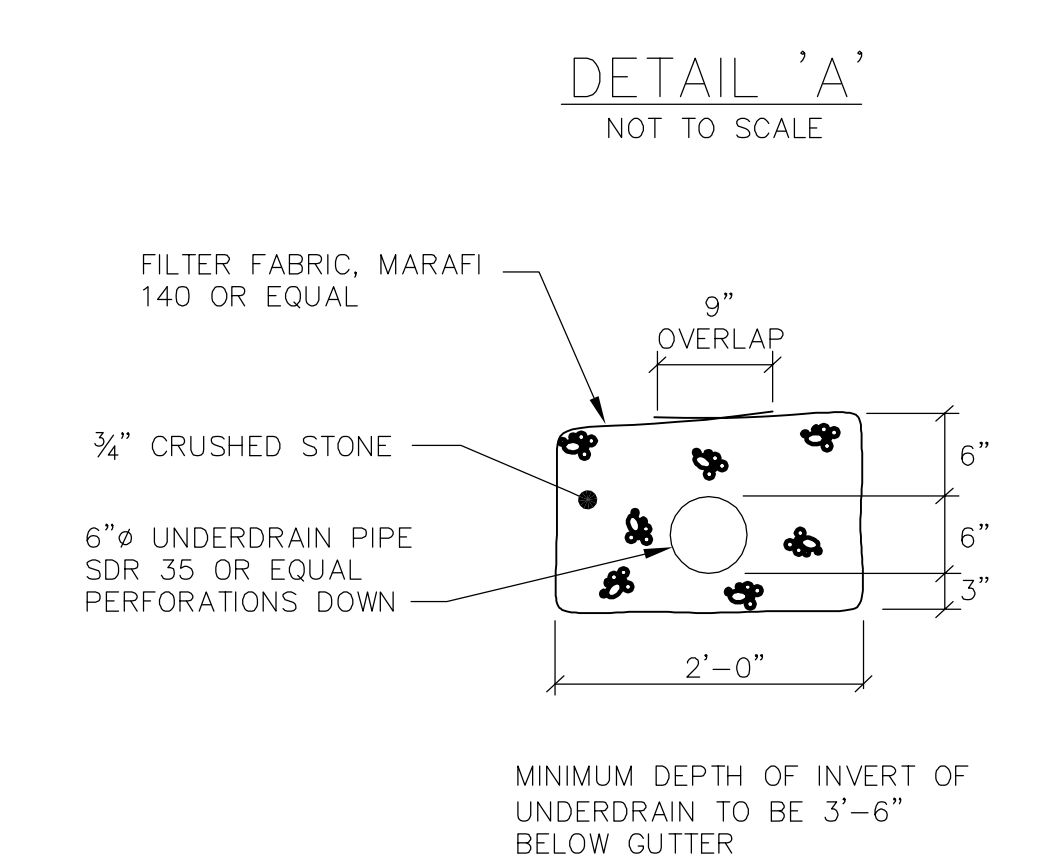
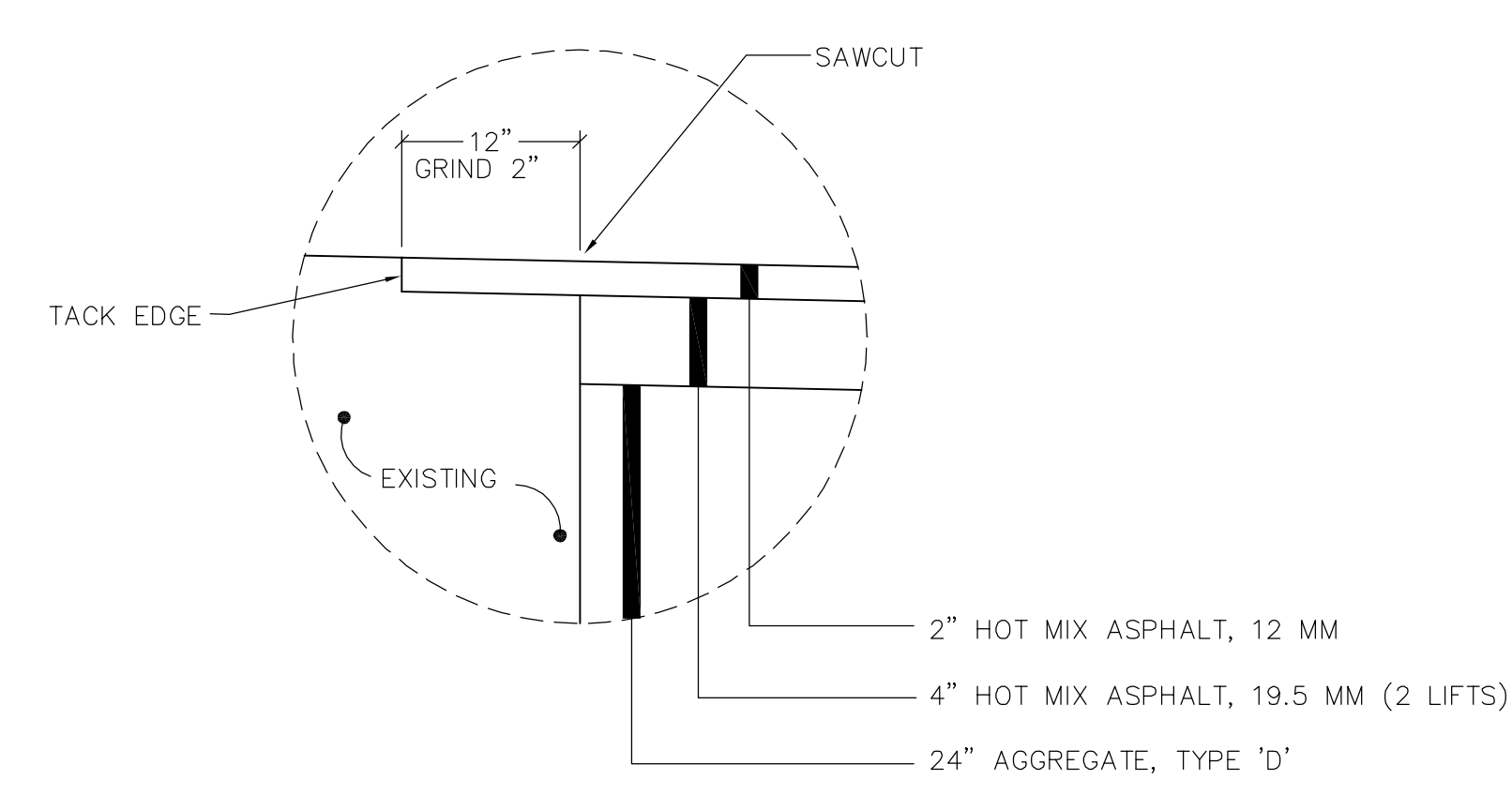
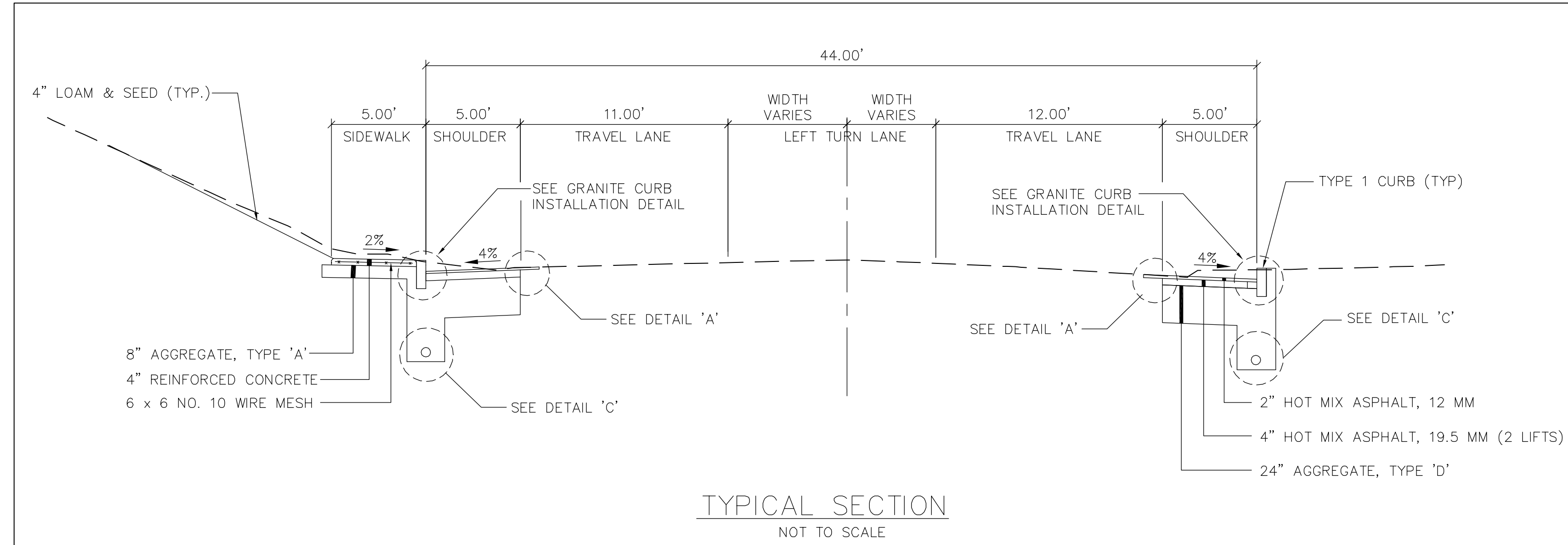
drawing title **RIGHT-OF-WAY
PLAN**

seal	designed by RCN	project no. 5001024.00
	drawn by DB	CAD file no.
	checked by TLG	drawing no. C206
	date 1/19/2004	
	scale AS NOTED	

drawing no.
C206

F.A.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	MDOT PIN	1	XX

PORTLAND BEDFORD STREET



GENERAL NOTES

- THE MDOT AND THE CITY OF PORTLAND SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIALS IN PROGRESS OR COMPLETED. THE MDOT AND THE CITY OF PORTLAND SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS.
- ALL SIGNING, SIGNAL AND STRIPING MATERIALS AND PLACEMENT SHALL CONFORM TO THE MDOT STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS AND WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- ALL DISTURBED SLOPE AREAS SHALL BE LOAMED AND SEEDED. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS.
- DISPOSITION OF SURPLUS MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SURPLUS MATERIAL SHALL NOT BE DISPOSED OF ON THE PROJECT SITE. DISPOSITION SHALL BE MADE ONLY AT WASTE AREAS WHICH ARE LICENSED TO ACCEPT SUCH MATERIALS, UNLESS THE MATERIALS CAN BE INCORPORATED IN FILLS IN OTHER PROJECTS OF THE CONTRACTOR.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARD FOR EXCAVATIONS).
- THE CONTRACTOR SHALL CONTACT DIG-SAFE AND APPROPRIATE AUTHORITIES PRIOR TO ANY SUBSURFACE ACTIVITIES.
- THE FOLLOWING UTILITIES HAVE FACILITIES IN THE GENERAL PROJECT AREA:
 AT&T CORPORATION (MANCHESTER, NH)
 CENTRAL MAINE POWER
 CITY OF PORTLAND
 GRANITE STATE GAS TRANSMISSION, INC
 MARITIMES NORTHEAST PIPELINE
 MOI WORLD COM
 MOBIL PIPE LINE COMPANY
 NORTHERN UTILITIES, INC (PORTLAND, MAINE)
 PORTLAND FIRE DEPARTMENT
 PORTLAND NATURAL GAS TRANSMISSION
 PORTLAND PIPE LINE CORPORATION
 PORTLAND WATER DISTRICT
 TIME WARNER CABLE (PORTLAND OFFICE)
 VERIZON
- ANY RELOCATIONS OR ADJUSTMENTS OF UTILITY FACILITIES WILL BE MADE BY THE RESPECTIVE UTILITIES IN COORDINATION WITH THE WORK OF THE CONTRACTOR.
- LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES THAT MAY BE SHOWN ON THE PLANS ARE APPROXIMATE ONLY.
- IF FOUNDATIONS MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL AND BE PAID FOR AS AGGREGATE SUBBASE COURSE GRAVEL.
- BUTT JOINTS SHALL BE USED AT ALL LOCATIONS WHERE THE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT.
- SAWCUT LIMITS SHOWN ON THE PLANS ARE FOR ROADWAY RECONSTRUCTION AND WIDENING ONLY AND DO NOT REFLECT SAWCUTS OF PAVEMENT AND GRAVEL SUBBASE OR BASE RESTORATION WHICH IS NECESSARY FOR UTILITY CONSTRUCTION.
- LIMITS OF PROPOSED PAVEMENT, GRAVEL SUBBASE AND BASE SHOWN ON THE CROSS SECTIONS IS THE MINIMUM EXTENT REQUIRED FOR ROADWAY RECONSTRUCTION AND WIDENING AND DO NOT REFLECT LIMITS OF PROPOSED PAVEMENT, GRAVEL SUBBASE AND BASE RESTORATION WHICH IS NECESSARY FOR UTILITY CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY OPENING PERMITS.
- MAINTENANCE OF TRAFFIC SHALL BE PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". IN ADDITION, THE CONTRACTOR MUST ALSO USE "GIVE'EM A BRAKE" SIGNS.
- THE CONTRACTOR MUST USE THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AS A MINIMUM STANDARD.
- DRIVEWAY ACCESSES SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL SUBMIT A PLAN TO CONTROL TRAFFIC DURING THE PERIOD OF CONSTRUCTION OF THE TRAFFIC IMPROVEMENTS TO THE MDOT AND THE CITY OF PORTLAND FOR APPROVAL WHICH CONFORMS TO THE FEDERAL TRAFFIC ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- THE CONTRACTOR SHALL COMPLY WITH THE INSURANCE REQUIREMENTS OUTLINED UNDER SECTION 103.08 IN THE DEPARTMENT'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES" (HEREAFTER STANDARD SPECIFICATIONS). MINIMUM INSURANCE REQUIREMENTS SHALL INCLUDE AT LEAST WORKERS' COMPENSATION INSURANCE, COMMERCIAL GENERAL LIABILITY AND AUTOMOBILE LIABILITY INSURANCE AS DEFINED THEREIN. THE CONTRACTOR SHALL PROVIDE THE DEPARTMENT WITH SATISFACTORY PROOF OF SUCH INSURANCE COVERAGE. IN THE EVENT THAT SUCH INSURANCE IS TERMINATED OR CANCELED WITHOUT BEING REPLACED WITH COMPARABLE INSURANCE, THE DEPARTMENT MAY SUSPEND OR TERMINATE THE CONSTRUCTION OF ALL TRAFFIC IMPROVEMENTS IN PROGRESS AT THE TIME OF SUCH TERMINATION OR CANCELLATION.
- THE CONTRACTOR SHALL PROVIDE THE DEPARTMENT WITH A PERFORMANCE BOND, CERTIFIED CHECK OR OTHER NEGOTIABLE SECURITY ACCEPTABLE TO THE DEPARTMENT IN THE FULL AMOUNT OF THE COST TO CONSTRUCT SUCH IMPROVEMENTS WHICH CONFORMS TO THE GENERAL REQUIREMENTS FOR SUCH SURETY AS OUTLINED UNDER SECTION 103.05 IN THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE THE DEPARTMENT, OWNER AND THE CITY OF PORTLAND WITH A SCHEDULE OF WORK FOR CONSTRUCTING THE TRAFFIC IMPROVEMENTS.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED AS SHOWN ON THE FINAL PLANS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL ALLOW OR ARRANGE FOR THE MDOT, ITS INSPECTORS, AGENTS, EMPLOYEES, CONTRACTORS OR INVITED GUESTS, TO ENTER UPON ANY LAND OWNED OR CONTROLLED BY THE DEVELOPER OUTSIDE OF AND ADJOINING THE RIGHT-OF-WAY OF ANY HIGHWAY OR PUBLIC WAY, WHICH MAYBE USED FOR CONSTRUCTION OF THE TRAFFIC IMPROVEMENTS, AT ANY AND ALL TIMES AND FOR ANY AND ALL PURPOSES NECESSARY OR INCIDENTAL TO SUCH INSPECTION OR TESTING.
 - THE PLACEMENT OF BITUMINOUS PAVING MATERIALS SHALL BE SUBJECT TO ALL OF THE WEATHER AND SEASONAL LIMITATIONS OUTLINED UNDER SECTION 401.07 IN THE STANDARD SPECIFICATIONS.
 - ALL TRAFFIC SHALL BE CONTROLLED DURING THE PERIOD OF CONSTRUCTION IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN APPROVED BY THE MDOT AND THE CITY OF PORTLAND.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY NECESSARY UTILITY WORK/RELOCATION WITH THE PROPER UTILITY COMPANY FOR UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE OWNER AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE OWNER. AT A MINIMUM THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SHALL BE USED.
- ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- OFFSETS TO CATCH BASINS AND MANHOLES ARE TO THE CENTER OF THE FRAME.
- PROPERTY LINE AND R.O.W. MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE, BY A MAINE REGISTERED LAND SURVEYOR.
- CONSTRUCTION SHALL NOT COMMENCE UNTIL AUTHORIZED BY THE MDOT AND THE ENGINEER.
- REMOVAL AND RESETING OF SIGNS SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

NOTE:
 * MAINTENANCE OF TRAFFIC PER MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 * CONTRACTOR SHALL USE THE B.M.P. (BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL) AS A MINIMUM STANDARD.

NOTE:
 ALL WORK CONTEMPLATED FOR THE BEDFORD STREET IMPROVEMENTS SHALL BE GOVERNED BY AND BE IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (REVISION OF APRIL 1995), THE STANDARD DETAILS (APRIL 1997), THE SUPPLEMENTAL SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS FOR CONSTRUCTION (FEBRUARY 1, 2001) THERETO, EXCEPT AS MODIFIED BY THE PLANS OR SPECIFICATION SPECIAL PROVISION.

GMP DOCUMENTS	1/19/04
no. revisions/submissions	date

Einhorn Yaffee Prescott
 Architecture & Engineering P.C.
 24 School Street
 Boston, MA 02108
 Telephone 617 305 9800
 Fax 617 305 9888
 eypae.com

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GP Gorrill-Palmer Consulting Engineers, Inc.
 Traffic and Civil Engineering Services
 PO Box 1237
 15 Shaker Road
 Gray, ME 04039
 207-657-6910
 FAX: 207-657-6912
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drawing title	
TYPICAL SECTIONS	
designed by	project no.
RCN	5001024.00
drawn by	CAD file no.
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checked by	drawing no.
TLG	
date	
1/19/2004	C202
scale	
NOT TO SCALE	

drawing no.
C202