

**GENERAL NOTES:**

- WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION AND SUPPLEMENTS, THE CALIFORNIA BUILDING CODE (EXCAVATION AND GRADING), AND CITY OF LENNOX LOCAL ORDINANCES AS APPLICABLE.
- ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT, "[REPORT NAME]", BY [COMPANY NAME] DATED [MONTH DAY, YEAR].
- EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED DECEMBER 14, 2018 BY KPFF CONSULTING ENGINEERS.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
- PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
- THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
- STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
- ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
- ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER THE REQUIREMENTS OF THE SOILS REPORT BUT NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D-1557.
- THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
- DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
- ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
- THRUST BLOCKS SHALL BE INSTALLED AT WATERLINE HORIZONTAL AND VERTICAL BENDS, TEES, CAPPED ENDS AND REDUCERS ACCORDING TO THE DETAILS PROVIDED ON THESE PLANS.
- CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.
- THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
- CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT (800-227-2600) PRIOR TO EXCAVATION.
- ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
- ALL CURB DIMENSIONS AND RADII ARE TO PAVEMENT FACE OF CURB.
- CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
- WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FROM THE CITY OF LENNOX FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.

**LEGEND:**

**GENERAL**

- CIVIL LIMITS OF WORK
- SHEET MATCH LINE

**ANNOTATION**

- 100.00 XX SURFACE ELEVATION/UTILITY ELEVATION
- (100.00)XX EXISTING SURFACE ELEVATION/UTILITY ELEVATION
- XX CONSTRUCTION NOTE
- 2.0% FLOW (DIRECTION AND GRADE)
- 2:1 SLOPE (DIRECTION AND RUN:RISE)
- XX HORIZONTAL CONTROL POINT LABEL
- CX CURVE DATA LABEL
- FF=100.00 PAD/FINISHED FLOOR ELEVATION

**SITE**

- CURB/BACK OF CURB/GUTTER
- RETAINING WALL/SITE WALL
- PROPERTY LINE/RIGHT OF WAY
- CENTER LINE
- FENCE
- TO BE DEMOLISHED

**EROSION CONTROL**

- SANDBAGS
- FIBER ROLL
- PROPOSED BUILDING EXCAVATION OUTLINE
- EXISTING DRAINAGE DIRECTION OF FLOW
- PROTECT TREE IN PLACE

**GRADING**

- 100 PROPOSED MAJOR CONTOUR
- 102 PROPOSED MINOR CONTOUR
- FLOW LINE
- GB GRADE BREAK LINE
- R RIDGE LINE
- EARTHEN SWALE
- SAWCUT
- LIMITS OF GRADING
- GRADING BENCH
- GRADED SLOPE (HORIZONTAL:VERTICAL)

**UTILITY**

- SS SANITARY SEWER
- W WATER
- DW DOMESTIC WATER
- FW FIRE WATER
- SD STORM DRAIN
- G GAS
- E ELECTRIC
- T TELEPHONE
- PERFORATED PIPE
- POINT OF CONNECTION
- COORDINATION POINT
- CAP OR PLUG
- UTILITY MANHOLE
- UTILITY CLEANOUT
- STORM DRAIN INLET
- AREA DRAIN/PLANTER DRAIN
- TRENCH DRAIN
- FIRE HYDRANT
- THRUST BLOCK
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- WATER VALVE
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT

**ABBREVIATIONS:**

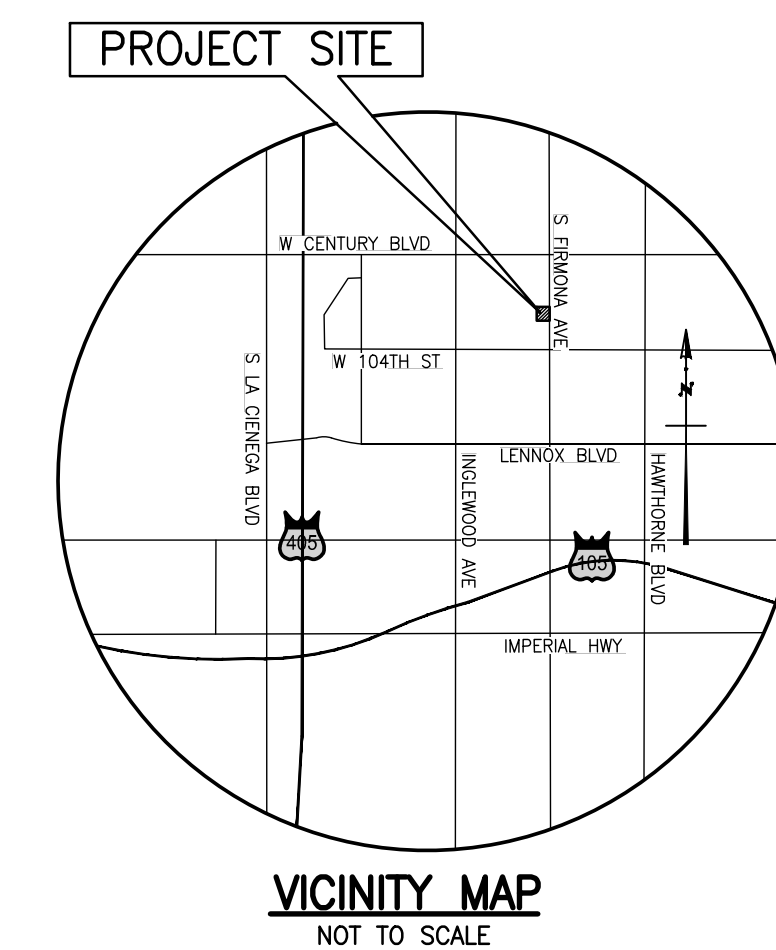
AC ASPHALTIC CONCRETE	MH MANHOLE
BCR BEGIN CURVE RETURN	(N) NORTH
BW BACK OF WALK	NTS NOT TO SCALE
BLDG BUILDING	PA PLANTER AREA
BM BENCH MARK	POC POINT OF CONNECTION
BOS BOTTOM OF STAIRS	PIV POST INDICATOR VALVE
BMP BEST MANAGEMENT PRACTICES	PCC POINT OF COMPOUND CURVE
CB CATCH BASIN	PRC POINT OF REVERSE CURVE
CI CAST IRON	PRV PRESSURE REDUCING VALVE
CL CENTER LINE	PVC POLYVINYL CHLORIDE
CMU CONCRETE MASONRY UNIT	R RADIUS
CO CLEANOUT	RCIP RECTANGULAR CAST IRON PIPE
CONC PORTLAND CEMENT CONCRETE	RD ROOF DRAIN
CF CURB FACE	RW RIGHT-OF-WAY
DW DOMESTIC WATER	(S) SOUTH
(E) EAST	S= SLOPE EQUALS
ECR END CURVE RETURN	SD STORM DRAIN
EG EDGE OF GUTTER	SSMH SANITARY SEWER MANHOLE
EL. OR ELEV ELEVATION	SS SANITARY SEWER
ELEC ELECTRIC, ELECTRICAL	STD STANDARD
EX. OR EXIST. EXISTING	SDMH STORM DRAIN MANHOLE
FDC FIRE DEPARTMENT CONNECTION	TC TOP OF CURB
FF FINISHED FLOOR	TEL TELEPHONE
FG FINISHED GRADE (LANDSCAPE)	TG TOP OF GRATE
FS FINISHED SURFACE (HARDSCAPE)	TOS TOP OF STAIRS
FH FIRE HYDRANT	TW TOP OF WALL
FL FLOW LINE	TS TRAFFIC SIGNAL
FT FOOT OR FEET	TSB TRAFFIC SIGNAL BOX
FU FIXTURE UNITS	TYP TYPICAL
FW FIRE WATER	TV TELEVISION
GPM GALLONS PER MINUTE	VIF VERIFY IN FIELD
GV GATE VALVE	VLV VAULT
HDPE HIGH DENSITY POLYETHYLENE	VCP VITRIFIED CLAY PIPE
HP HIGH POINT	(W) WEST
INV. INVERT	W WATER
LP LOW POINT	WM WATER METER
MAX. MAXIMUM	WV WATER VALVE
MIN. MINIMUM	

**PATTERN LEGEND:**

- CONCRETE PAVING (REFER TO SHEET C5.0 FOR DETAILS)
- ASPHALT (REFER TO SHEET C5.0 FOR DETAILS)
- DECOMPOSED GRANITE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)

**SHEET INDEX:**

CIVIL DRAWINGS	
C0.1	TITLE SHEET
C1.0	SURVEY (FOR REFERENCE ONLY)
C1.1	DEMOLITION PLAN
C1.2	EROSION CONTROL PLAN
C1.3	GRADING PLAN
C1.4	UTILITY PLAN
C1.5	PAVING PLAN
C5.0	CIVIL DETAILS



THIS PLAN HAS BEEN REVIEWED AND CONFORMS TO RECOMMENDATIONS OF SOILS ENGINEERING/GEOLOGICAL REPORT BY [COMPANY NAME] DATED [MONTH DAY, YEAR].

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STAMP \_\_\_\_\_

1-800-227-2600  
CALL USA/SC FOR UNDERGROUND LOCATING 48 HOURS BEFORE YOU DIG!

**IMPORTANT NOTICE**  
SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG



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LENNOX, CA 90304

drawn by \_\_\_\_\_ checked by \_\_\_\_\_ project title \_\_\_\_\_  
remarks \_\_\_\_\_  
DESIGN DEVELOPMENT \_\_\_\_\_  
FINISHES PRESENTATION \_\_\_\_\_  
90% CONSTRUCTION DOCUMENTS \_\_\_\_\_  
50% CONSTRUCTION DOCUMENTS \_\_\_\_\_  
PLAN CHECK SUBMITTAL \_\_\_\_\_  
12/14/2018 \_\_\_\_\_  
01/25/2019 \_\_\_\_\_  
02/15/2019 \_\_\_\_\_  
03/11/2019 \_\_\_\_\_  
03/29/2019 \_\_\_\_\_  
sheet \_\_\_\_\_ job # \_\_\_\_\_ title \_\_\_\_\_

TITLE SHEET

C0.1

# DESIGN SURVEY

SHEET 1 OF 1



LENNOX SCHOOL DISTRICT  
NEW FAMILY CLINIC

PREPARED FOR:  
MS. CHERYL TRINIDAD  
TO HELP EVERYONE (T.H.E.)  
714 WEST OLYMPIC BOULEVARD, SUITE 1106  
LOS ANGELES, CA 90015

PROJECT # 1800845  
DATE PREPARED 12/06/2018  
DRAWN BY DB  
CHECKED BY BR

NO.	DATE	REVISIONS
6		
5		
4		
3		
2		
1		



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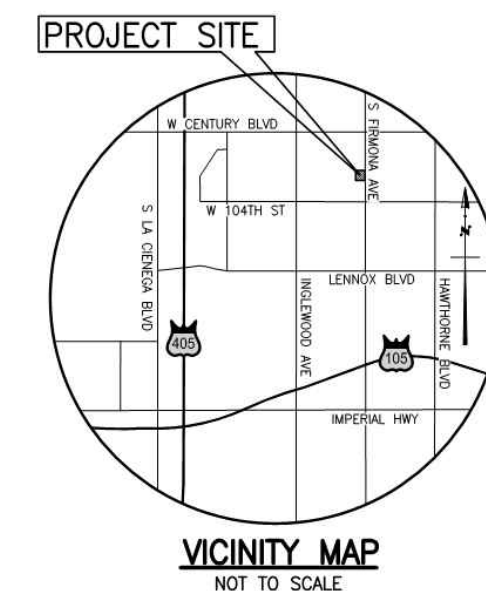
**TO HELP EVERYONE**  
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10223 FIRMONA AVE.  
LENNOX, CA 90304

DATE	DESCRIPTION
12/14/2018	DESIGN DEVELOPMENT
01/25/2019	FINISHES PRESENTATION
03/11/2019	50% CONSTRUCTION DOCUMENTS
03/29/2019	PLAN CHECK SUBMITTAL

SHEET	DATE	BY	DATE
1	12/14/2018	ROBERT ROSEN, PLS. E348	
2	01/25/2019	BUCK ROGERS, PLS. E348	
3	03/11/2019	BUCK ROGERS, PLS. E348	
4	03/29/2019	BUCK ROGERS, PLS. E348	

SURVEY (FOR REFERENCE ONLY)

C1.0



### LEGEND

- AREA DRAIN
- BOLLARD
- CURB DRAIN
- ELECTRIC PULLBOX
- ⊕ FIRE HYDRANT
- ⊕ GAS METER
- ⊕ GAS VALVE
- ⊕ GUY ANCHOR
- ⊕ IRRIGATION CONTROL VALVE
- ⊕ POWER POLE
- ⊕ SANITARY SEWER MANHOLE
- ⊕ SEWER CLEANOUT
- ⊕ SIGN
- ⊕ STORM DRAIN MANHOLE
- ⊕ WATER METER
- ⊕ WATER VALVE
- ⊕ PALM
- ⊕ TREE

### ABBREVIATIONS

- AC ASPHALT CONCRETE
- AD AREA DRAIN
- BL BOLLARD
- CL CENTERLINE
- CAB CABINET
- CATV CABLE/TV
- CB CATCH BASIN
- CD CURB DRAIN
- CO CLEANOUT
- COMM COMMUNICATIONS
- CONC CONCRETE
- DR DOOR
- DWY DRIVEWAY
- EG EDGE OF GUTTER
- ELEC ELECTRIC
- ELEV ELEVATION
- EP EDGE OF PAVEMENT
- ESTAB ESTABLISHED
- FD FOUND
- FF FINISHED FLOOR
- FL FLOWLINE
- GB GRADE BREAK
- ICV IRRIGATION CONTROL VALVE
- INV INVERT
- LA LANDSCAPE AREA
- L&T LEAD TACK AND TAG
- MH MANHOLE
- NG NATURAL GROUND
- OH OVERHANG
- OW PROPERTY LINE
- PP POWERPOLE
- R/W RIGHT-OF-WAY
- RSR RISER
- SCD SEWER CLEANOUT
- SD STORM DRAIN
- SN SIGN
- SNF SEARCHED NOTHING FOUND
- SS SANITARY SEWER
- TEL TELEPHONE
- TG TOP OF GRADE
- TP TRANSFORMER PAD
- TRANS TRANSFORMER
- TW TOP OF WALL
- TYP TYPICAL
- UNK UNKNOWN
- UTIL UTILITY
- WIF WROUGHT IRON FENCE
- WV WATER VALVE
- WLT WALL
- N'LY NORTHERLY
- S'LY SOUTHERLY
- E'LY EASTERLY
- W'LY WESTERLY
- NE'LY NORTHEASTERLY
- NW'LY NORTHWESTERLY
- SE'LY SOUTHEASTERLY
- SW'LY SOUTHWESTERLY

### LINETYPES

- ▨ BUILDING FOOTPRINT
- ▨ BUILDING OVERHANG
- ▨ CHAINLINK FENCE
- ▨ CONCRETE CURB
- ▨ RIGHT OF WAY LINE
- ▨ STREET CENTERLINE
- ▨ WALL
- ▨ WROUGHT IRON FENCE

### COMMENTS

- DATES OF SURVEY . . . . . NOVEMBER 15, 2018
- SITE ADDRESS . . . . . 10213 FIRMONA AVENUE, INGLEWOOD, CALIFORNIA 90304  
10223 FIRMONA AVENUE, INGLEWOOD, CALIFORNIA 90304
- APN NO. . . . . 4036-007-901  
4036-007-902
- BOUNDARY LINES . . . . . THIS IS A TOPOGRAPHIC SURVEY ONLY. A BOUNDARY SURVEY WAS NOT PERFORMED.
- BASIS OF BEARINGS . . . . . THE BASIS OF BEARINGS FOR THIS SURVEY IS N 00°02'00" E ALONG THE CENTERLINE OF S FIRMONA AVENUE AS SHOWN ON TRACT NO. 288, FILED IN BOOK 14, PAGES 162 THROUGH 163, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, STATE OF CALIFORNIA.
- BENCH MARK . . . . . LOS ANGELES COUNTY BM SD-66, CENTURY BLVD & FIRMONA (FORMERLY FIR AVE) N E COR. BT SPK IN CURB 33' E OF E-END COR  
ELEV = 90.267 FT
- UTILITIES . . . . . ALL VISIBLE ABOVE-GROUND UTILITY FEATURES SHOWN ON THIS MAP WERE OBTAINED BY CONVENTIONAL MEANS. NO REPRESENTATION IS MADE AS TO THE COMPLETENESS OF SAID UTILITY INFORMATION AND ANY USER OF THIS INFORMATION SHOULD CONTACT THE UTILITY OR GOVERNMENT AGENCY DIRECTLY.
- FLOOD INSURANCE RATE MAP . . . . . ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PER FLOOD INSURANCE RATE MAP (FIRM) MAP PANEL MAP NO. 06037C1780F EFFECTIVE DATE SEPTEMBER 26, 2005.

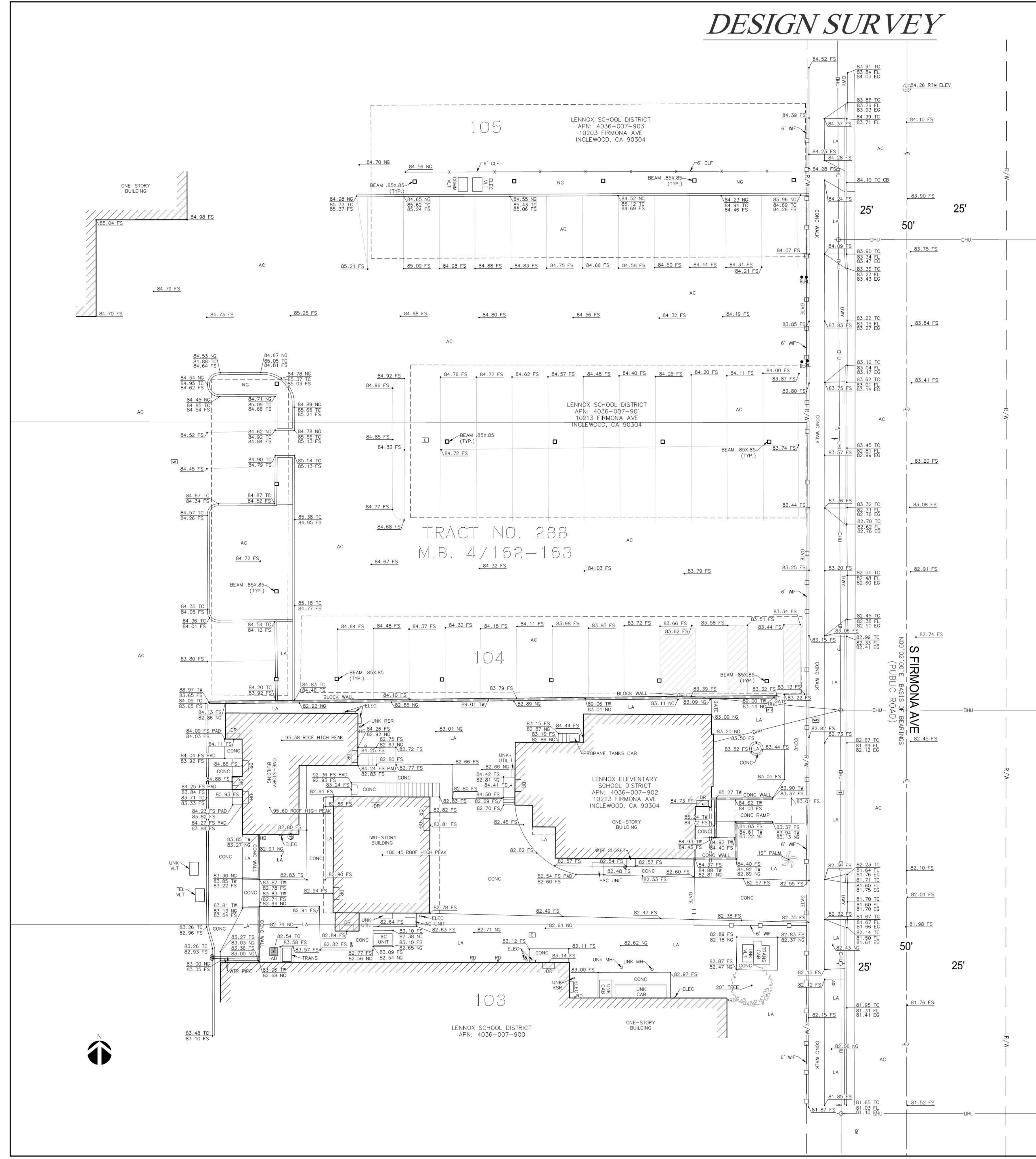
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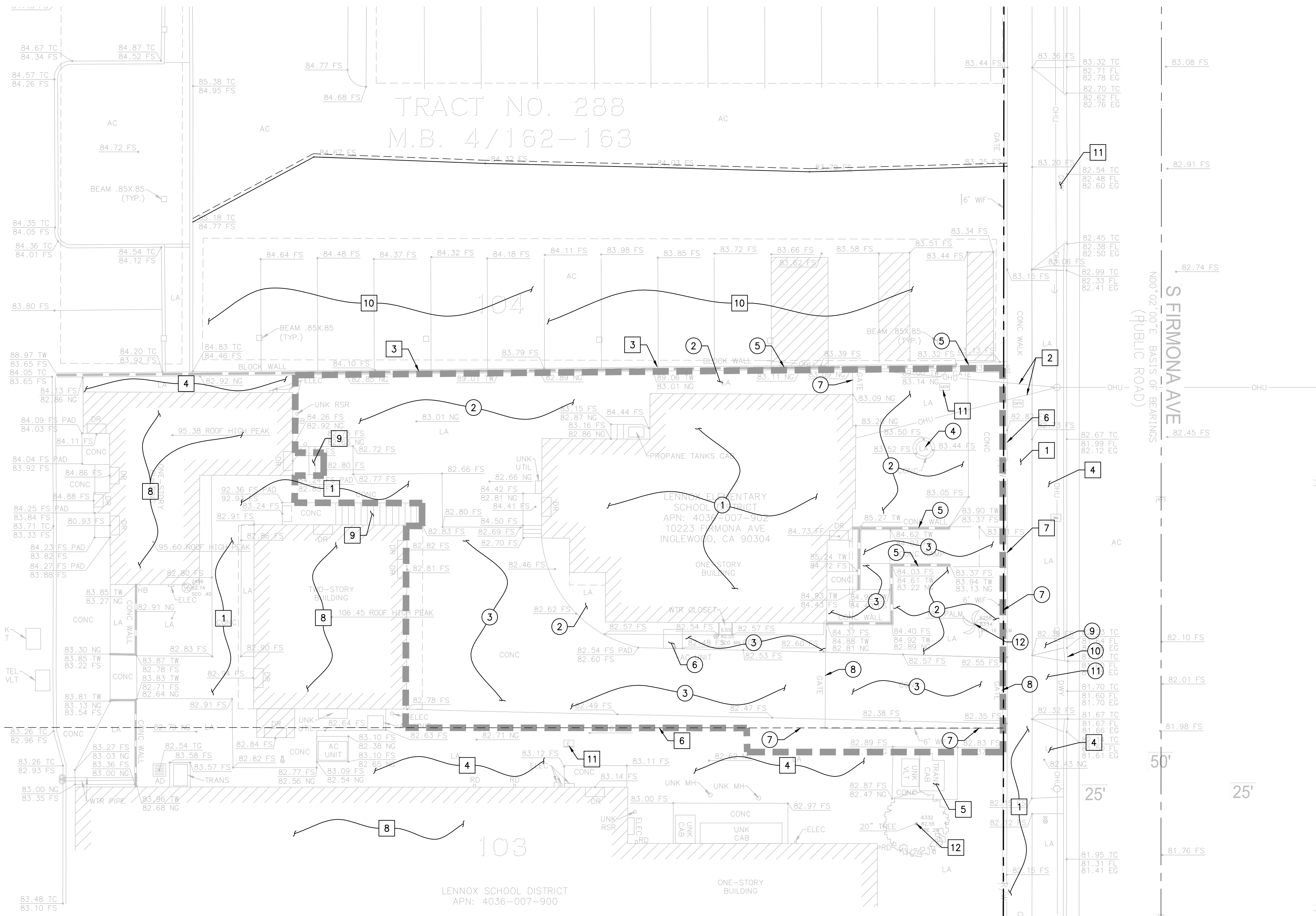
**PRELIMINARY**

ROBERT ROSEN, PLS. E348  
BUCK ROGERS, PLS. E348



**FOR REFERENCE ONLY**





**GENERAL DEMOLITION NOTES:**

1. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITIES, STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
2. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
9. DEMOLITION IS LIMITED TO WITHIN DEMOLITION LIMIT LINE UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
11. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT, ETC. THAT IS TO BE DEMOLISHED, REMOVED AND DISPOSED OF.

**DEMOLITION NOTES:**

- PROTECT-IN-PLACE**
- 1 PROTECT-IN-PLACE EXISTING CONCRETE PAVEMENT.
  - 2 PROTECT-IN-PLACE EXISTING OVERHEAD UTILITIES.
  - 3 PROTECT-IN-PLACE EXISTING BLOCK WALL.
  - 4 PROTECT-IN-PLACE EXISTING LANDSCAPE AREA.
  - 5 PROTECT-IN-PLACE EXISTING TRANSFORMER AND PAD.
  - 6 PROTECT-IN-PLACE EXISTING WROUGHT IRON FENCE.
  - 7 PROTECT-IN-PLACE EXISTING GATE.
  - 8 PROTECT-IN-PLACE EXISTING STRUCTURE.
  - 9 PROTECT-IN-PLACE EXISTING STAIRCASE.
  - 10 PROTECT-IN-PLACE EXISTING ASPHALT PAVEMENT.
  - 11 PROTECT-IN-PLACE EXISTING PULL BOX. ADJUST TO GRADE IF NEEDED.

**DEMOLISH & REMOVE**

- 1 DEMOLISH & REMOVE PORTION OF EXISTING BUILDING. SEE SHEET A2.0 FOR CONTINUATION.
- 2 DEMOLISH & REMOVE EXISTING LANDSCAPE AREA.
- 3 DEMOLISH & REMOVE EXISTING CONCRETE PAVEMENT.
- 4 DEMOLISH & REMOVE EXISTING PLANTER.
- 5 DEMOLISH & REMOVE PORTION OF EXISTING CONCRETE WALL. SEE SHEET A1.1.
- 6 DEMOLISH & REMOVE EXISTING AC UNIT.
- 7 DEMOLISH & REMOVE PORTION OF EXISTING WROUGHT IRON FENCE. SEE SHEET A1.1.
- 8 DEMOLISH & REMOVE EXISTING FENCE.
- 9 DEMOLISH & REMOVE PORTION OF EXISTING LANDSCAPE AREA FOR PROPOSED DRIVEWAY WIDENING.
- 10 DEMOLISH & REMOVE PORTION OF EXISTING CURB AND GUTTER FOR PROPOSED DRIVEWAY WIDENING.
- 11 DEMOLISH & REMOVE EXISTING DRIVEWAY.
- 12 DEMOLISH & REMOVE EXISTING TREE.

**LEGEND:**

- — — — — LIMIT OF WORK
- — — — — PROPERTY LINE
- - - - - DEMOLITION LINE



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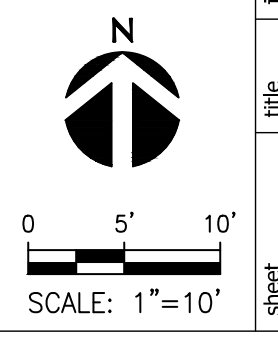
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LENNOX, CA 90304

drawn by: [ ] checked by: [ ] project title: [ ]  
remarks: [ ]  
date: [ ] job # [ ] sheet [ ]

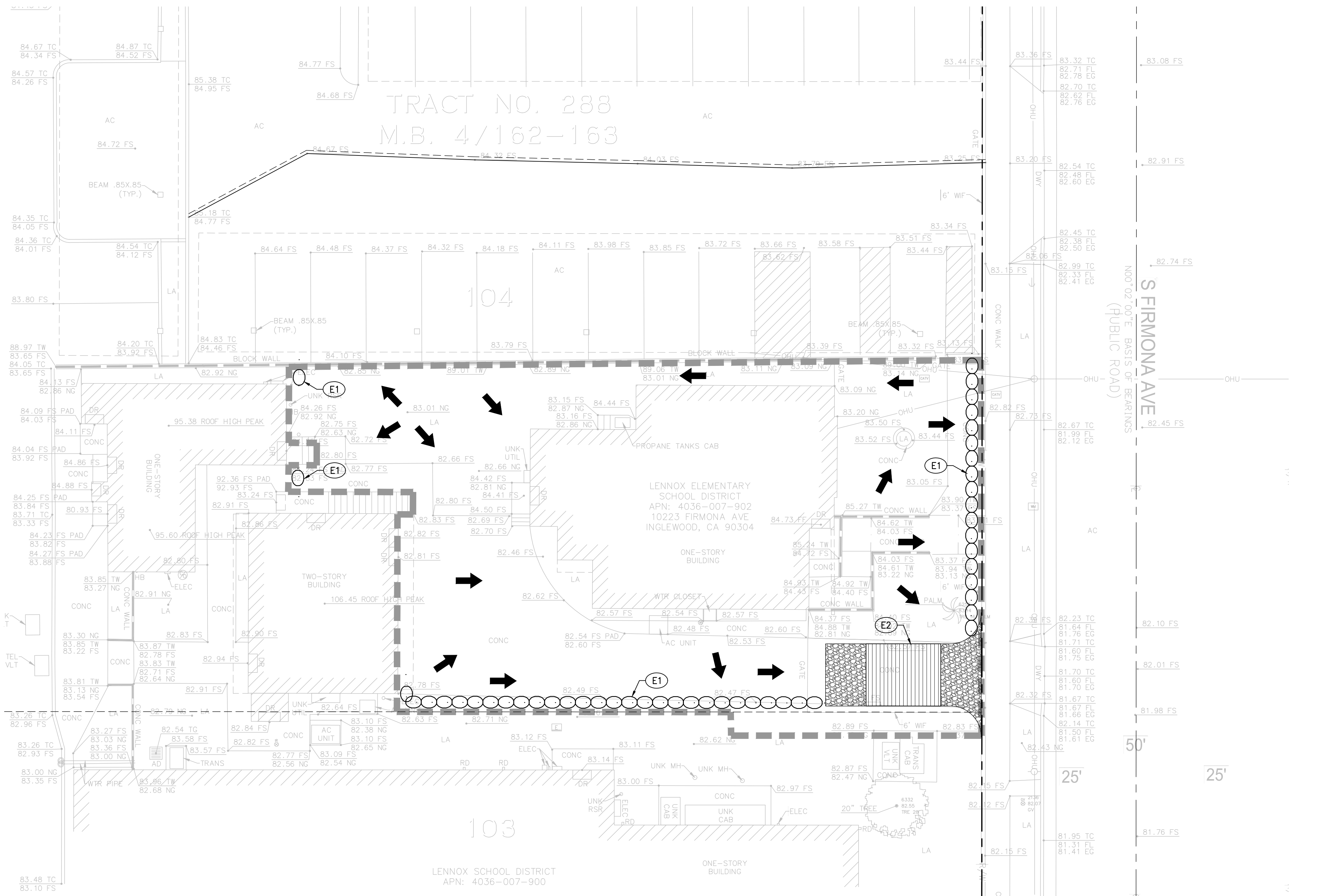
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[ ]	[ ]	[ ]	[ ]	[ ]

date	description
12/14/2018	[ ]
01/25/2019	[ ]
03/11/2019	[ ]
03/29/2019	[ ]

DEMOLITION PLAN

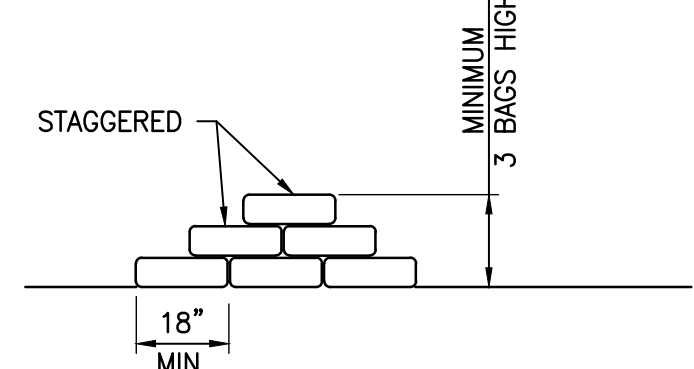


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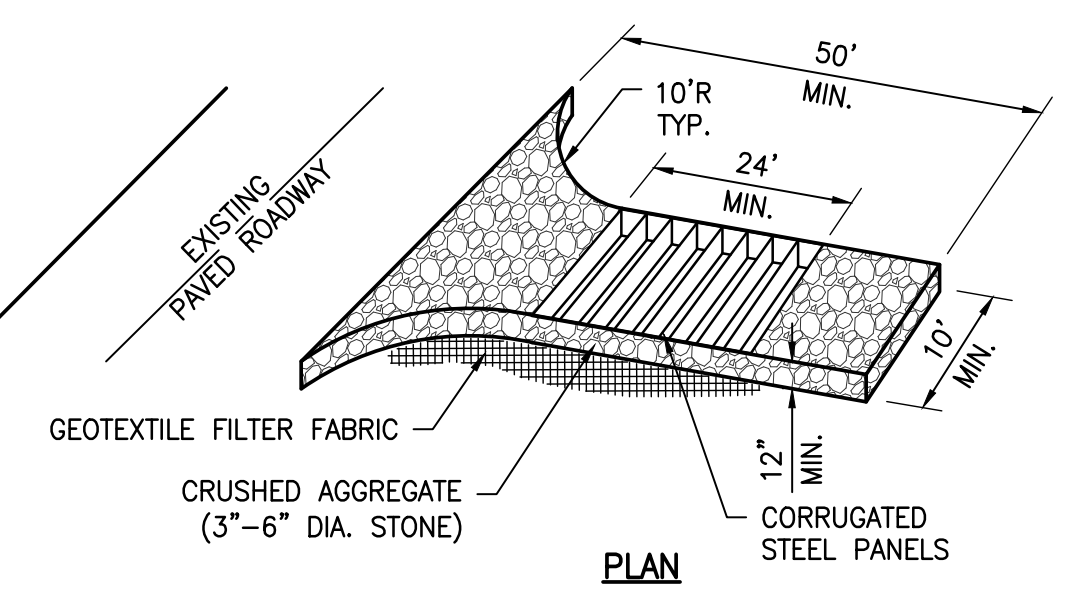
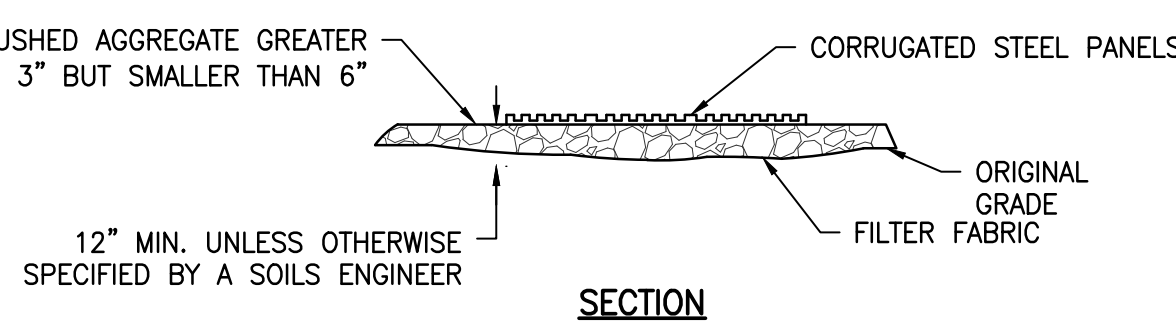
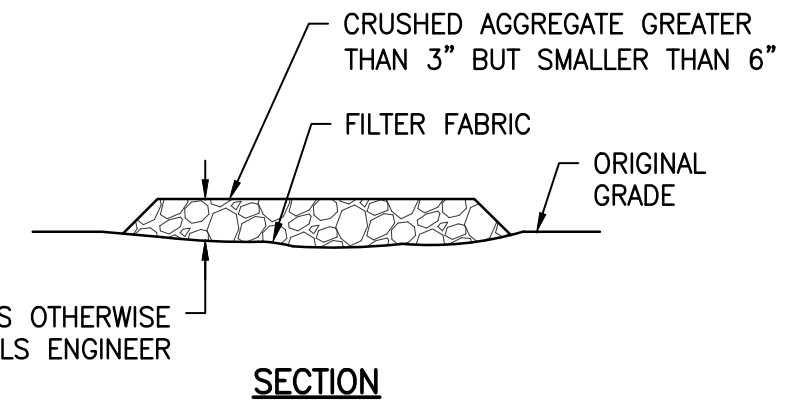


SLOPE INCLINATION	MAXIMUM SHEET FLOW LENGTH (FOR SLOPE INTERRUPTION)
< 4:1 (H:V)	*20'
4:1-2:1 (H:V)	*15'
> 2:1 (H:V)	*10'

\* FIRST ROW NEAR SLOPE TOE



- NOTES:**
- BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD<sup>2</sup>, MULLEN BURST STRENGTH EXCEEDING 300 LB/IN<sup>2</sup> IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
  - BAG SIZE: EACH GRAVEL-FILLED BAG SHOULD HAVE A LENGTH OF 18 IN., WIDTH OF 12 IN., THICKNESS OF 3 IN., AND MASS OF APPROXIMATELY 33 LBS. BAG DIMENSIONS ARE NOMINAL, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS.
  - FILL MATERIAL: FILL MATERIAL SHALL BE 0.5 TO 1.0 INCH CRUSHED ROCK, CLEAN AND FREE OF CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL, OR OTHER SUITABLE OPEN-GRADED, NON-COHESIVE, POROUS GRAVEL.
  - TURN THE ENDS OF GRAVEL BAG BARRIER UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND BARRIER.
  - USE PYRAMID APPROACH WHEN STACKING BAGS.



**NOTES:**

- THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
- IF A WASH RACK IS INCLUDED, A SEDIMENT TRAP OF SOME KIND MUST ALSO BE PROVIDED TO COLLECT WASH WATER RUNOFF.
- ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE.

**STREET MAINTENANCE NOTES**

- REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
- SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
- PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

**1 GRAVEL BAG BARRIER**  
N.T.S.

**2 STABILIZED CONSTRUCTION ENTRANCE**  
N.T.S.

**BMP NOTES:**

THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA, JULY 2012, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS):

**EROSION CONTROL**

- EC1-SCHEDULING
- EC2-PRESERVATION OF EXISTING VEGETATION
- EC3-HYDRAULIC MULCH
- EC4-HYDROSEEDING
- EC5-SOIL BINDERS
- EC6-STRAW MULCH
- EC7-GEOTEXTILES AND MATS
- EC8-WOOD MULCHING
- EC9-EARTH DIKES AND DRAINAGE SWALES
- EC10-VELOCITY-DISSIPATION-DEVICES
- EC11-SLOPE-DRAINS
- EC12-STREAMBANK-STABILIZATION
- EC13-RESERVED
- EC14-COMPOST BLANKET
- EC15-SOIL PREPARATION/ROUGHENING
- EC16-NON-VEGETATIVE STABILIZATION

**TEMPORARY SEDIMENT CONTROL**

- SE1-SILT FENCE
- SE2-SEDIMENT BASIN
- SE3-SEDIMENT TRAP
- SE4-CHECK DAM
- SE5-FIBER ROLLS
- SE6-GRAVEL BAG BERM
- SE7-STREET SWEEPING AND VACUUMING
- SE8-SANDBAG BARRIER
- SE9-STRAW BALE BARRIER
- SE10-STORM-DRAIN-INLET-PROTECTION
- SE11-ACTIVE-TREATMENT-SYSTEMS
- SE12-MANUFACTURED-LINEAR-SEDIMENT-CONTROLS
- SE13-COMPOST-SOCKS-AND-BERMS
- SE14-BIOFILTER BAGS

**EQUIPMENT TRACKING CONTROL**

- TC1-STABILIZED CONSTRUCTION ENTRANCE/EXIT
- TC2-STABILIZED CONSTRUCTION ROADWAY
- TC3-ENTRANCE/OUTLET TIRE WASH

**WIND EROSION CONTROL**

- WE1-WIND EROSION CONTROL

**NON-STORMWATER MANAGEMENT**

- NS1-WATER CONSERVATION PRACTICES
- NS2-DEWATERING OPERATIONS
- NS3-PAVING AND GRINDING OPERATIONS
- NS4-TEMPORARY STREAM-CROSSING
- NS5-CLEAR-WATER-DIVERSION
- NS6-ILLEGAL CONNECTION/DISCHARGE
- NS7-POTABLE WATER/IRRIGATION
- NS8-VEHICLE-AND-EQUIPMENT-CLEANING
- NS9-VEHICLE-AND-EQUIPMENT-FUELING
- NS10-VEHICLE-AND-EQUIPMENT-MAINTENANCE
- NS11-PILE DRIVING OPERATIONS
- NS12-CONCRETE CURING
- NS13-CONCRETE FINISHING
- NS14-MATERIAL-OVER-WATER
- NS15-DEMOLITION ADJACENT TO WATER
- NS16-TEMPORARY BATCH PLANTS

**WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL**

- WM1-MATERIAL DELIVERY AND STORAGE
- WM2-MATERIAL USE
- WM3-STOCKPILE MANAGEMENT
- WM4-SPILL PREVENTION AND CONTROL
- WM5-SOLID WASTE MANAGEMENT
- WM6-HAZARDOUS WASTE MANAGEMENT
- WM7-CONTAMINATED SOIL MANAGEMENT
- WM8-CONCRETE WASTE MANAGEMENT
- WM9-SANITARY/SEPTIC WASTE MANAGEMENT
- WM10-LIQUID WASTE MANAGEMENT

**EROSION CONTROL NOTES:**

- TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
- ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR
- WHEN THE INSPECTOR SO DIRECTS, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
- STORM AND SEWER DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS.
- EXCEPT WHEN THE INSPECTOR DIRECTS OTHERWISE, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS FORECAST, AND SHALL BE MAINTAINED DURING THE RAINY SEASON (OCTOBER 15 TO APRIL 15).
- SANDBAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE INSPECTOR SO DIRECTS.
- A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS:  
NAME: \_\_\_\_\_ (TO BE FILLED IN BY CONTRACTOR)  
PHONE NUMBER: \_\_\_\_\_

**DUST CONTROL NOTES:**

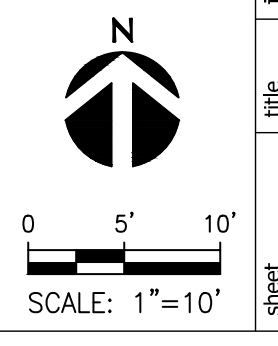
- DUST SHALL BE CONTROLLED BY WATERING AND/OR APPLYING A DUST PALLIATIVE. THE DUST PALLIATIVE SHALL BE APPLIED IN THE AMOUNT AT THE LOCATIONS AS DIRECTED BY THE ENGINEER.
- WATER FOR DUST CONTROL SHALL BE APPLIED BY MEANS OF PRESSURE TYPE DISTRIBUTORS OR PIPE LINES EQUIPPED WITH A SPRAY SYSTEM OR HOSES WITH NOZZLES THAT WILL ENSURE A UNIFORM APPLICATION OF WATER.
- UNLESS WATER IS APPLIED BY MEANS OF PIPE LINES, AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 100 GALLONS SHALL BE AVAILABLE FOR APPLYING WATER.
- ALL SOIL MATERIALS OR DEBRIS TRUCKED FROM THE SITE SHALL BE COVERED AND SPRINKLED PRIOR TO ENTERING PUBLIC STREETS.
- PROVIDE FOR WET SUPPRESSION OR CHEMICAL STABILIZING OF EXPOSED SOILS.
- PROVIDE FOR RAPID CLEAN-UP OF SEDIMENTS DEPOSITED ON THE PAVED ROADS.
- LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING & EARTH MOVING OPERATIONS BY SCHEDULING THESE ACTIVITIES IN PHASES.

**EROSION CONTROL NOTES:**

- (E1) PLACE GRAVEL BAGS TRIPLE ROW PER DETAIL 1, HEREON.
- (E2) STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 2, HEREON.

**LEGEND**

- LIMIT OF WORK
- - - PROPERTY LINE
- ○ ○ ○ ○ GRAVEL BAGS
- FIBER ROLL
- ← ← DIRECTION OF FLOW
- ☒ PROTECT TREE IN PLACE



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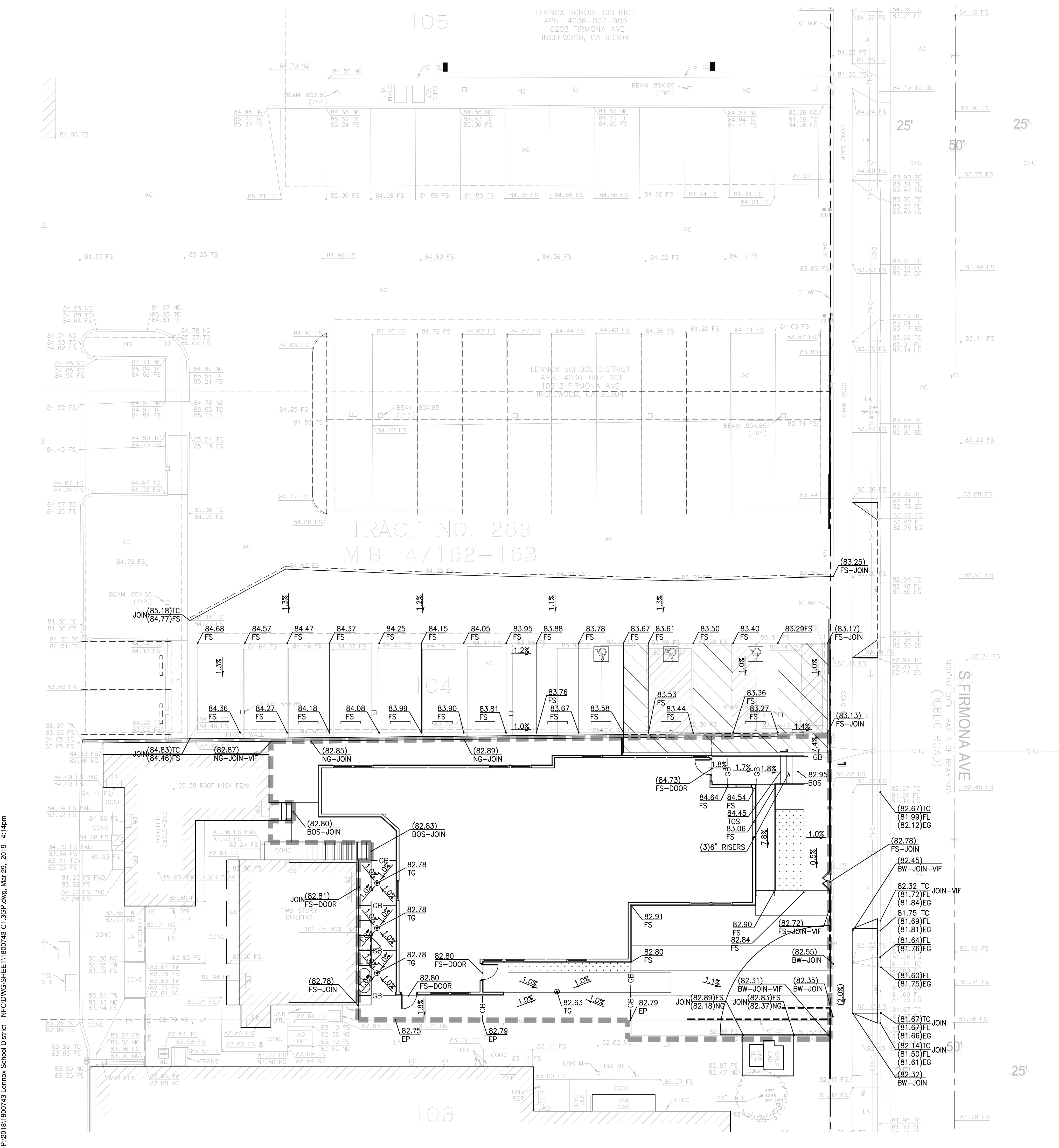
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02/15/2019			FINISHES PRESENTATION
03/11/2019			50% CONSTRUCTION DOCUMENTS
03/29/2019			PLAN CHECK SUBMITTAL

EROSION CONTROL PLAN

**C1.2**

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LEGEND

- LIMIT OF WORK
- - - PROPERTY LINE
- - - SAWCUT AND JOIN



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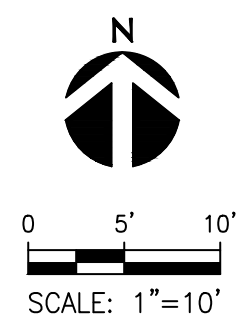


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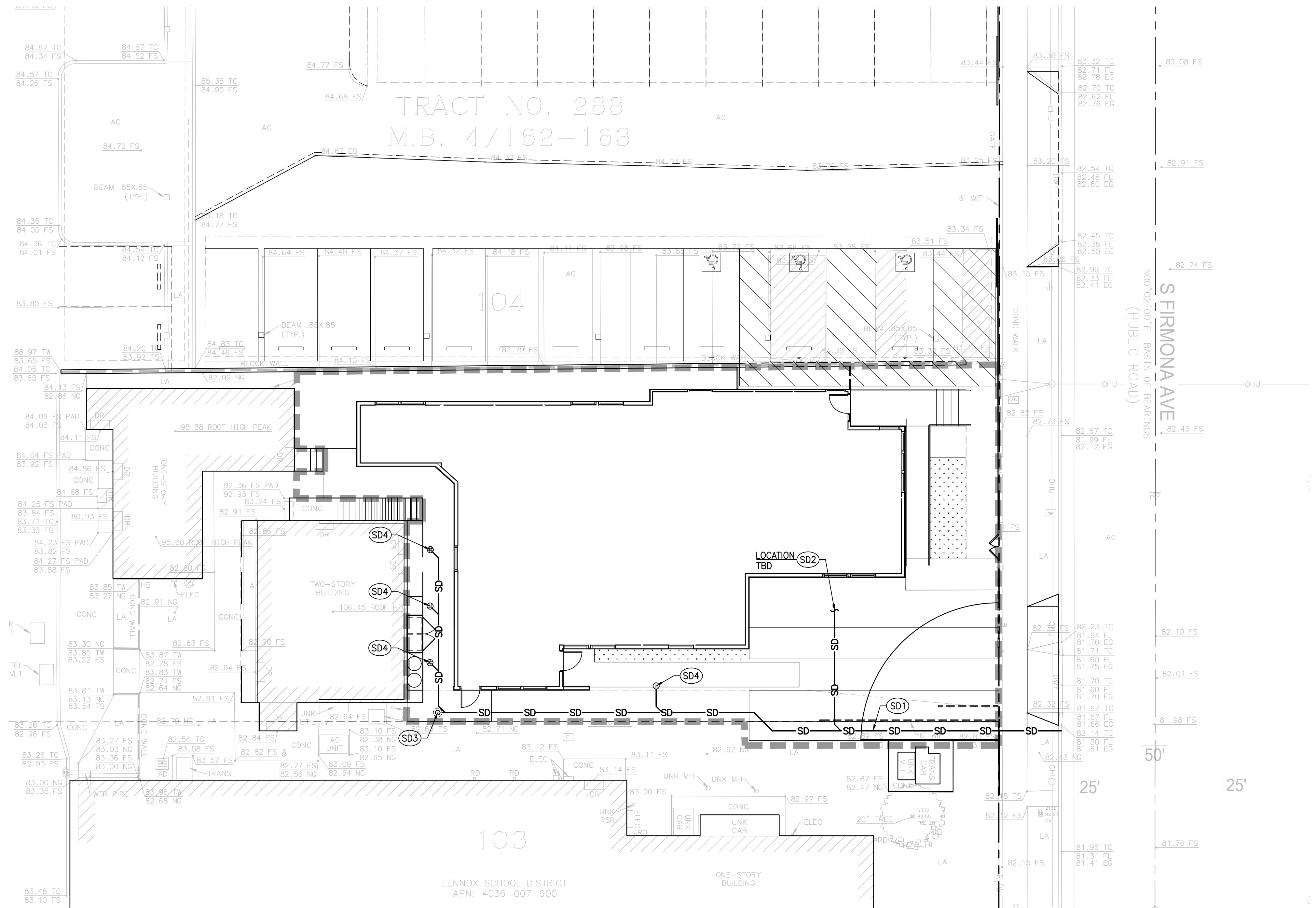
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GRADING PLAN  
**C1.3**



**UTILITY CONSTRUCTION NOTES:**

- STORM DRAIN**
- (SD1) PVC, SDR-35 STORM DRAIN PIPE PER DETAIL 1, SHEET C5.0. SIZE AND SLOPE PER PLAN.
  - (SD2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (SD3) CLEANOUT. PER DETAIL 2, SHEET C5.0.
  - (SD4) AREA DRAIN, PER DETAIL 3, SHEET C5.0.
  - (SD5) PRECAST CONCRETE CATCH BASIN. JENSEN PRECAST PRODUCTS OR APPROVED EQUIVALENT. SIZE AND GRATE BEARING TYPE PER PLAN.
  - (SD6) STORMWATER TREATMENT UNIT. PER DETAIL [\_\_\_], SHEET [\_\_\_].

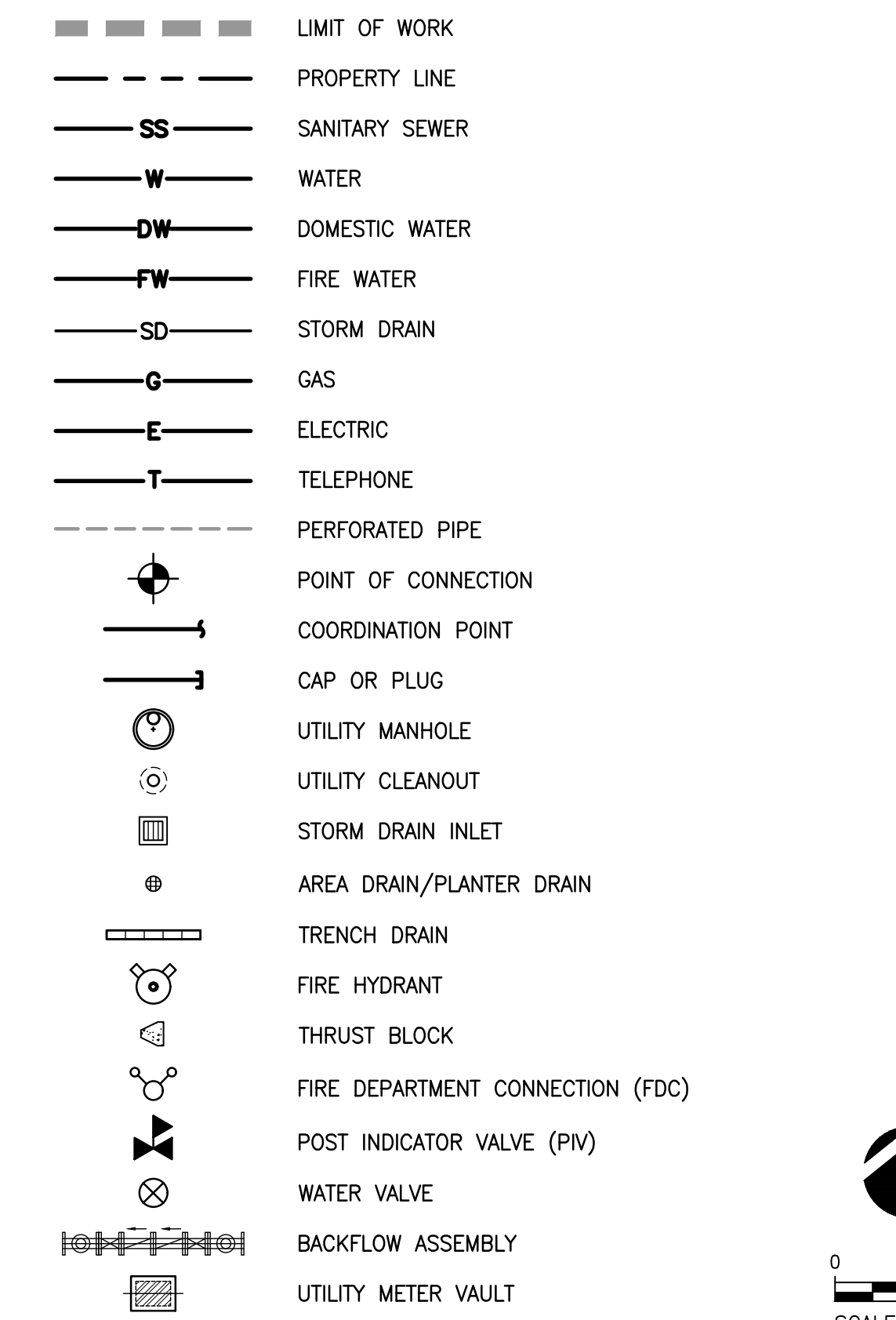
- SANITARY SEWER**
- (SS1) PVC, SDR-35 SANITARY SEWER PIPE PER DETAIL [\_\_\_]. SIZE AND SLOPE PER PLAN.
  - (SS2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (SS3) CLEANOUT. PER DETAIL [\_\_\_], SHEET [\_\_\_].
  - (SS4) PRECAST CONCRETE MANHOLE PER APWA STANDARD PLAN 200-2.

- DOMESTIC WATER**
- (W1) PVC C-900 DOMESTIC WATER PIPE PER DETAIL [\_\_\_], SHEET [\_\_\_]. SIZE PER PLAN.
  - (W2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (W3) BACKFLOW PREVENTION DEVICE. PER DETAIL [\_\_\_], SHEET [\_\_\_].
  - (W4) WATER METER VAULT. INSTALLATION BY [LOCAL WATER PROVIDER, CONTRACTOR]. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.

- FIRE WATER**
- (F1) PVC C-900 FIRE WATER PIPE PER DETAIL [\_\_\_], SHEET [\_\_\_]. SIZE AND MATERIAL PER PLAN.
  - (F2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (F3) BACKFLOW PREVENTION DEVICE. PER DETAIL [\_\_\_], SHEET [\_\_\_].
  - (F4) WATER METER VAULT. INSTALLATION BY [LOCAL WATER PROVIDER, CONTRACTOR]. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE FIRE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.
  - (F5) FIRE HYDRANT. PER DETAIL [\_\_\_], SHEET [\_\_\_].
  - (F6) FIRE DEPARTMENT CONNECTION.
  - (F7) POST INDICATOR VALVE.

- OTHER UTILITIES**
- (U1) ELECTRICAL CONDUIT. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
  - (U2) GAS LINE. SEE GAS COMPANY DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
  - (U3) MECHANICAL LINE. SEE MECHANICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.

**LEGEND:**



**NOTE:**  
IRRIGATION WATER METER, LINES AND APPURTENANCES BY OTHERS.

**NOTE:**  
ALL BMP'S PROPOSED AS A PART OF THIS PROJECT ARE TO BE INSPECTED BY THE ENGINEER OF RECORD AFTER INSTALLATION AND PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.

**NOTE:**  
PRIOR TO THE INSTALLATION OF ALL STORM DRAIN AND SEWER MAIN LINE CONNECTIONS, THE CONTRACTOR SHALL POTHOLE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE MAIN LINE. IF CONDITIONS DIFFER FROM THOSE ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITION HAS BEEN EVALUATED.



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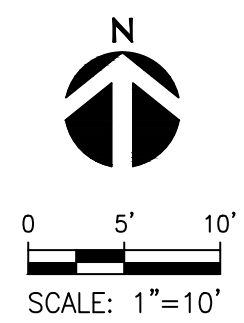


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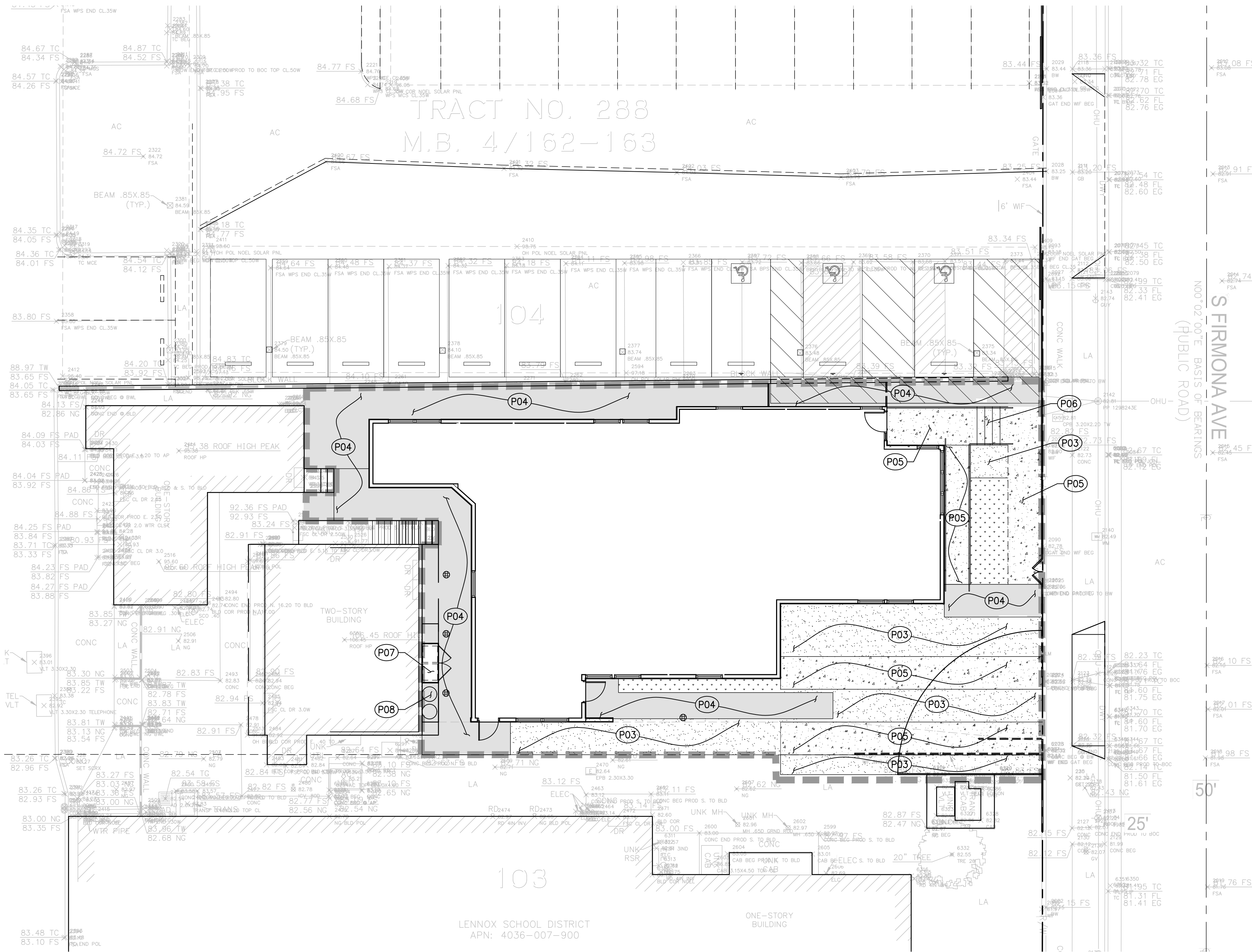
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UTILITY PLAN

**C1.4**



PAVING CONSTRUCTION NOTES

- (P01) CONCRETE CURB. PER DETAIL X, SHEET C5.X.
- (P02) CONCRETE CURB AND GUTTER. PER DETAILX, SHEET C5.X.
- (P03) DECOMPOSED GRANITE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- (P04) ASPHALT CONCRETE PAVEMENT. PER DETAIL 4 ON SHEET C5.0.
- (P05) CONCRETE PAVEMENT. PER DETAIL 4 ON SHEET C5.0.
- (P06) STAIRS. SEE ARCHITECTURAL PLANS FOR DETAILS.
- (P07) WATER HEATER ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- (P08) WASTE ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS.

LEGEND

- LIMIT OF WORK
- - - - - PROPERTY LINE
- [Pattern: Dotted] CONCRETE PAVING (REFER TO SHEET C5.0 FOR DETAILS)
- [Pattern: Horizontal Lines] ASPHALT (REFER TO SHEET [CXX.XX] FOR DETAILS)
- [Pattern: Stippled] DECOMPOSED GRANITE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- [Pattern: PA] PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)

NOTE TO CONTRACTOR/CONSTRUCTION SURVEYOR:

CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.



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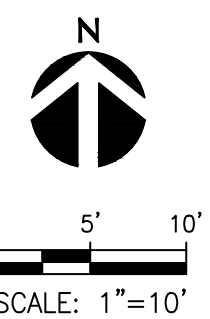
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PAVING PLAN

C1.5





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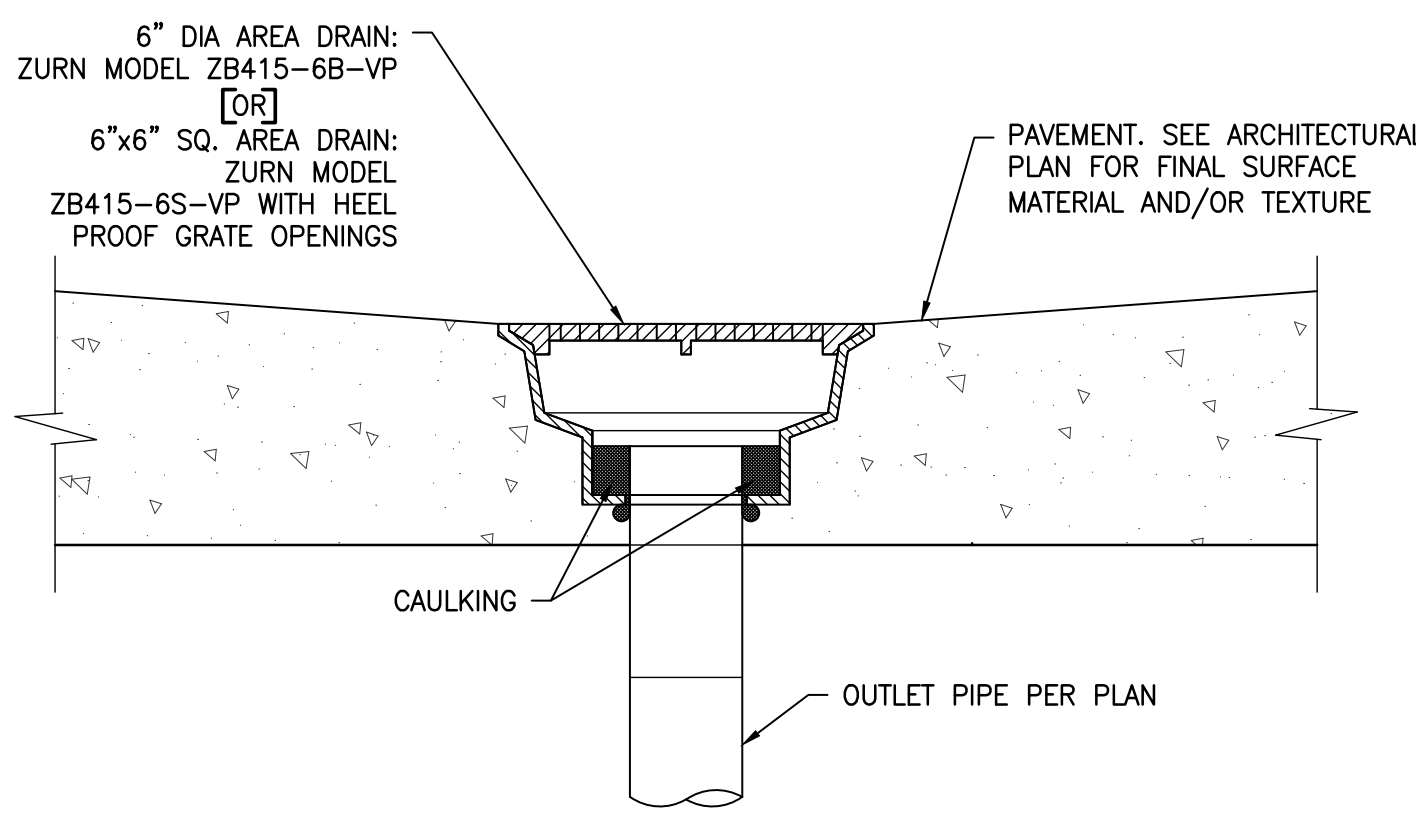
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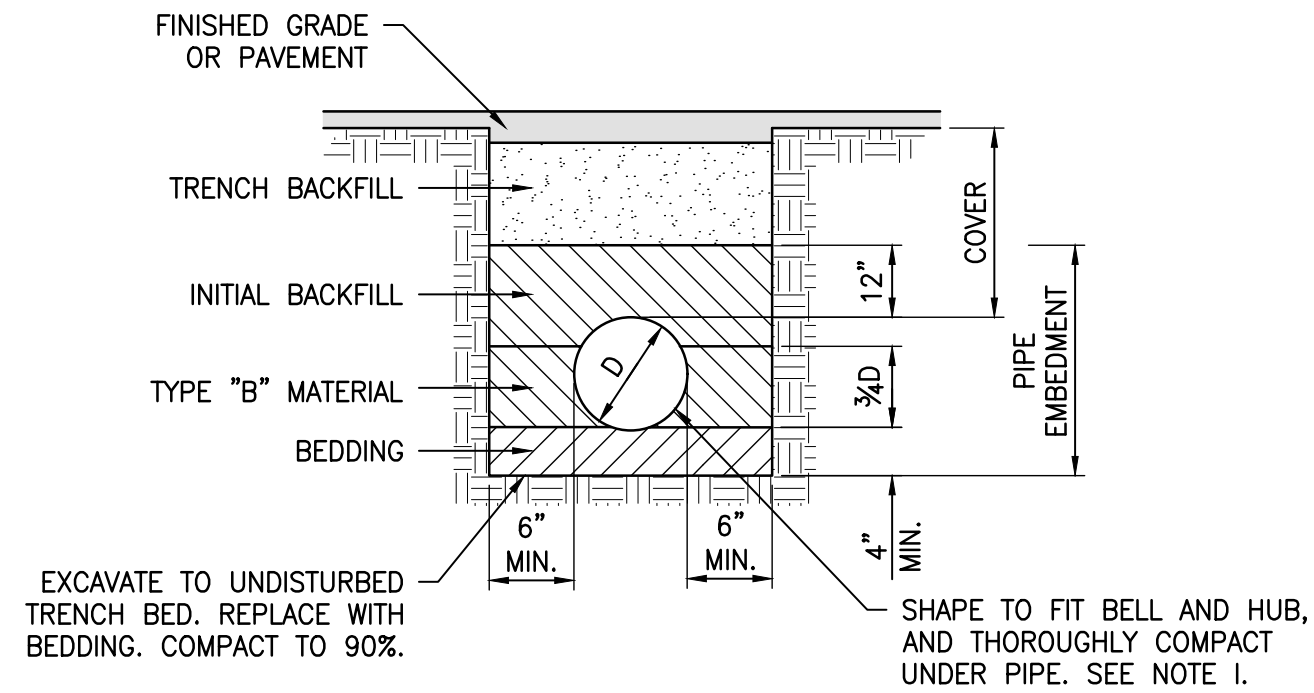


CIVIL DETAILS

C5.0



3 NON-TRAFFIC AREA DRAIN N.T.S.



FINISHED GRADE OR PAVEMENT

TRENCH BACKFILL

INITIAL BACKFILL

TYPE "B" MATERIAL

BEDDING

EXCAVATE TO UNDISTURBED TRENCH BED. REPLACE WITH BEDDING. COMPACT TO 90%.

SHAPE TO FIT BELL AND HUB, AND THOROUGHLY COMPACT UNDER PIPE. SEE NOTE 1.

BEDDING CLEAN COARSE SAND.

CLEAN COARSE SAND SHALL CONFORM TO THE REQUIREMENTS OF SAND FOR PORTLAND CEMENT CONCRETE AS SPECIFIED IN SECTION 200-1.5.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2018 EDITION.

INITIAL BACKFILL NATIVE MATERIAL - MAXIMUM SIZE NOT TO EXCEED 1 1/2".

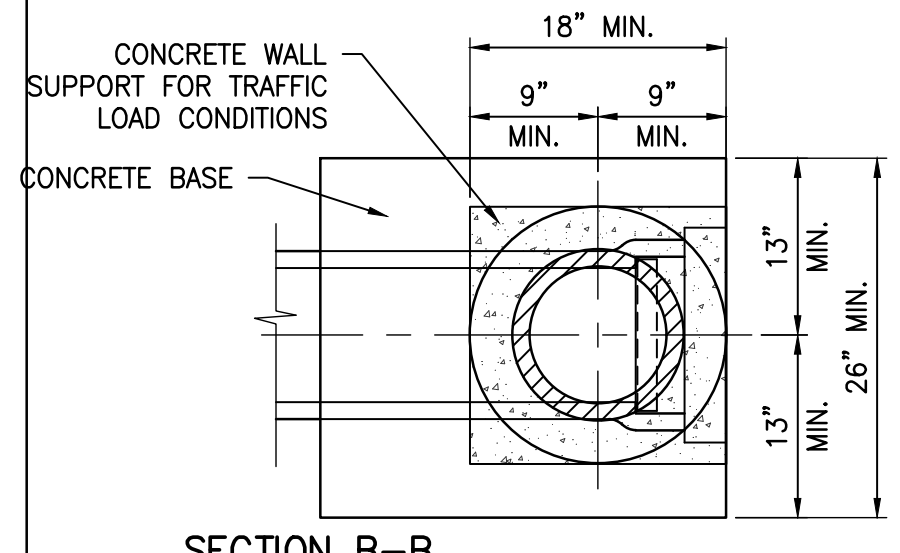
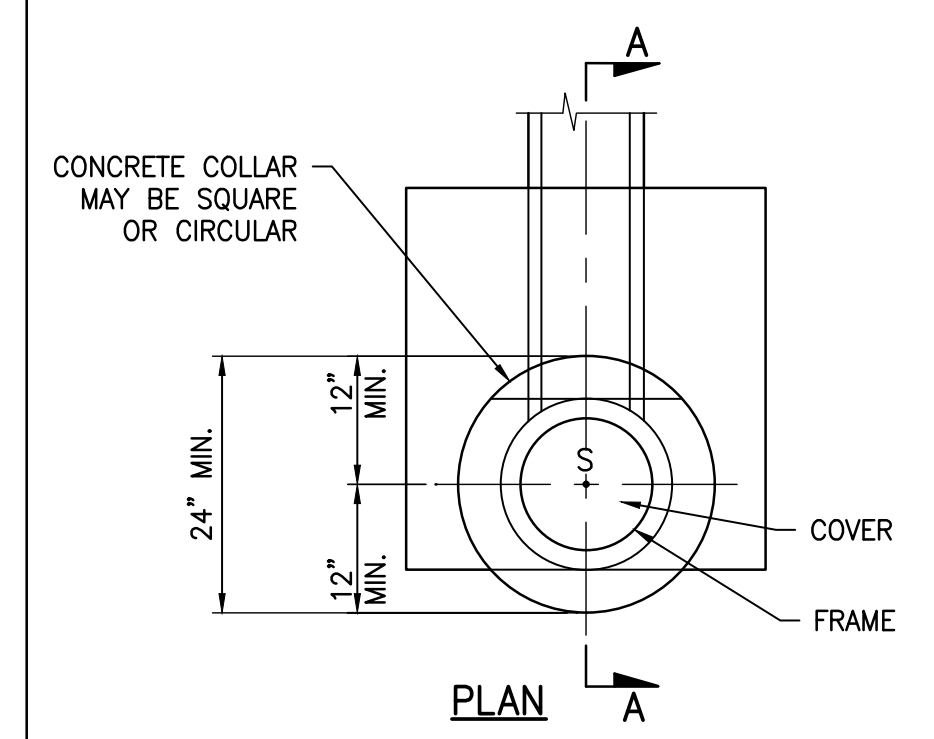
TRENCH BACKFILL NATIVE MATERIAL - 90% COMPACTION MIN. (95% COMPACTION IN UPPER 3.0' OF PAVED AREAS). UP TO CLASS IV SOILS, TYPE ML,CL. FINE GRAINED, LL<50, MEDIUM TO NO PLASTICITY. NOTE, IF CLASS IV SOIL, TYPE MH OR ALL CLASS V SOILS THEN USE CLEAN COURSE SAND.

"TYPE" B MATERIAL SHALL BE ONE OF THE FOLLOWING:

- NATIVE FREE DRAINING MATERIAL OR CRUSHED ROCK CONFORMING TO SUBSECTION 200-1.2 AND TABLE 200-1.2.1(A) OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". FOR PIPES UP TO AND INCLUDING 15", MAXIMUM ROCK GRADATION SHALL BE 3/4". FOR PIPES OVER 15", MAXIMUM ROCK GRADATION SHALL BE 1".
- CLEAN COARSE SAND.

**NOTES:**

- EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
- TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING SHOVEL-SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. (JETTING OF TYPE "B" MATERIAL IS NOT AUTHORIZED UNLESS PREVIOUSLY APPROVED).
- TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 217-2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2018 EDITION. WATER DENSIFIED BACKFILL SHALL NOT BE USED.

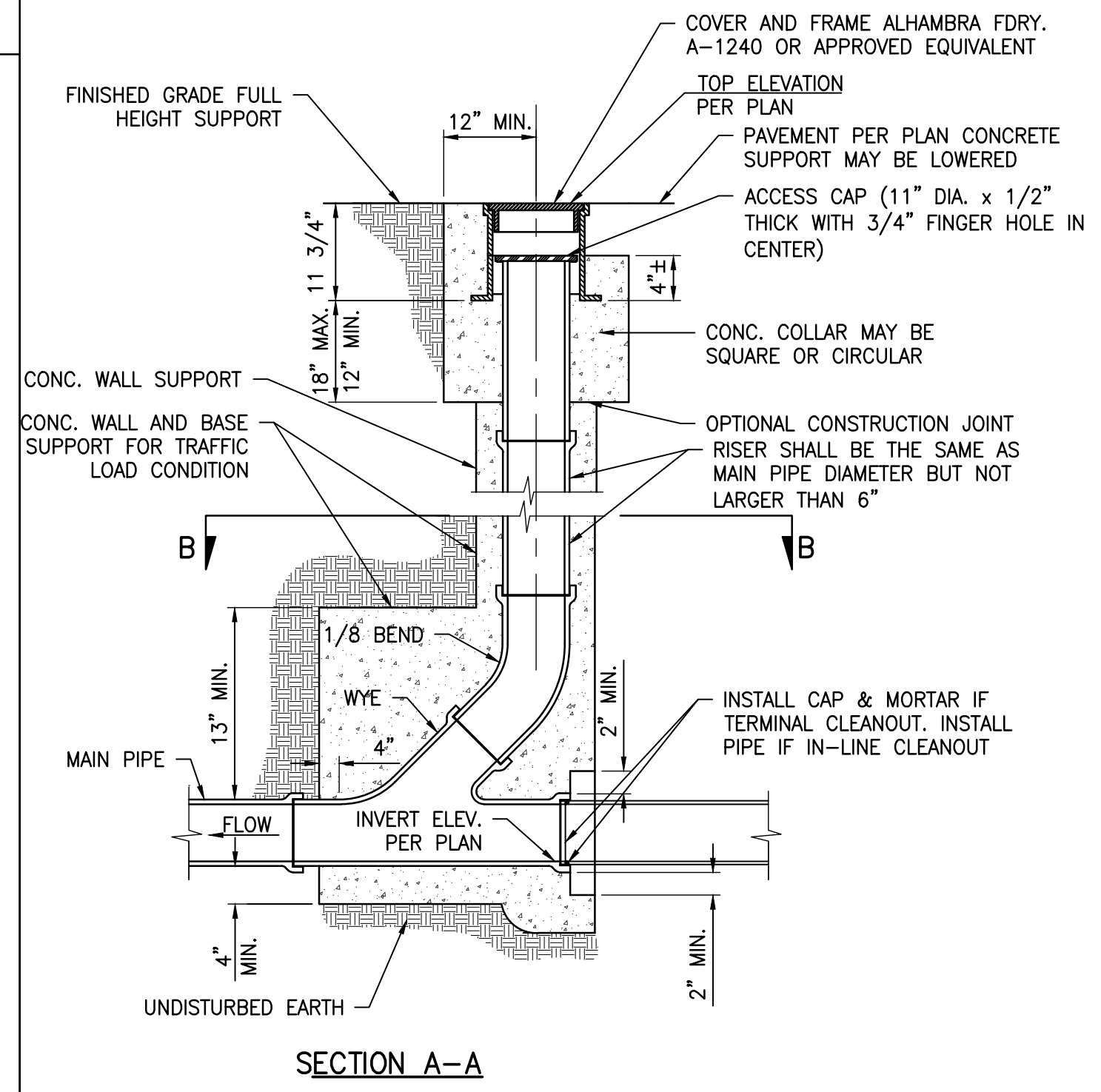


**NOTES**

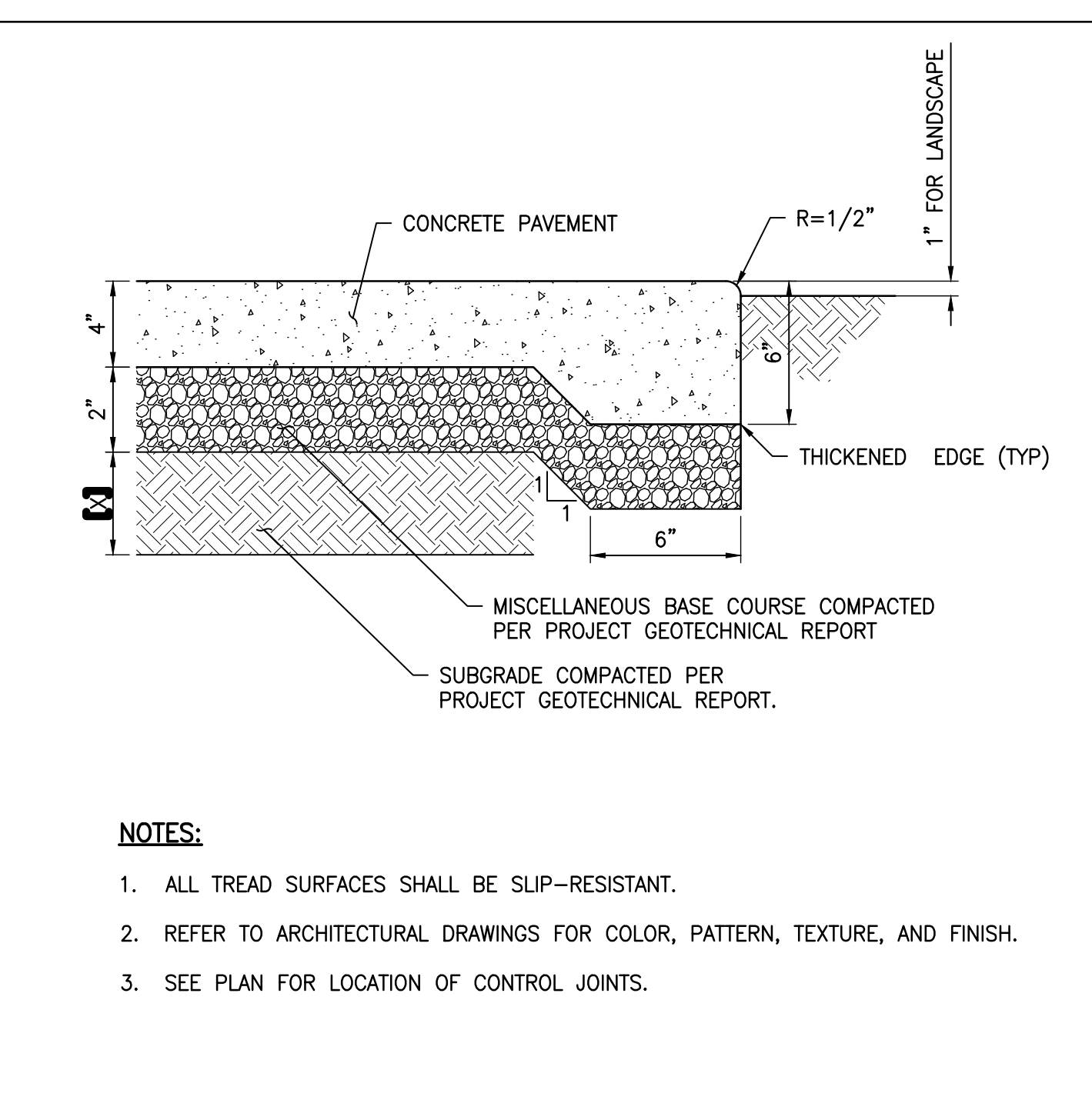
- SEE PROJECT PLANS FOR INVERT ELEVATION.
- PIPE AND FITTINGS, EXCEPT AS OTHERWISE SHOWN ON HEREON, SHALL BE OF THE SAME MATERIAL AS THE SEWER, UNLESS APPROVED ADAPTERS ARE UTILIZED AND MAY BE ANY OF THE FOLLOWING:

A. VC PIPE  
B. PE PIPE  
C. ABS SOLID PIPE  
D. ABS COMPOSITE PIPE  
E. PVC PLASTIC PIPE

- PIPES AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FOR BEDDING, ENCASEMENT, AND WALL SUPPORT FOR PIPES AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT.
- THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OUT OR MAY BE BLOCKED OUT PRIOR TO CASTING; THEY SHALL NOT BE PUNCHED OUT.
- THE CONTRACTOR, AT HIS OPTION, MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS AS SHOWN HEREON.



2 STANDARD CLEANOUT N.T.S.



**NOTES:**

- ALL TREAD SURFACES SHALL BE SLIP-RESISTANT.
- REFER TO ARCHITECTURAL DRAWINGS FOR COLOR, PATTERN, TEXTURE, AND FINISH.
- SEE PLAN FOR LOCATION OF CONTROL JOINTS.

4 CONCRETE WALK SECTION N.T.S.

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