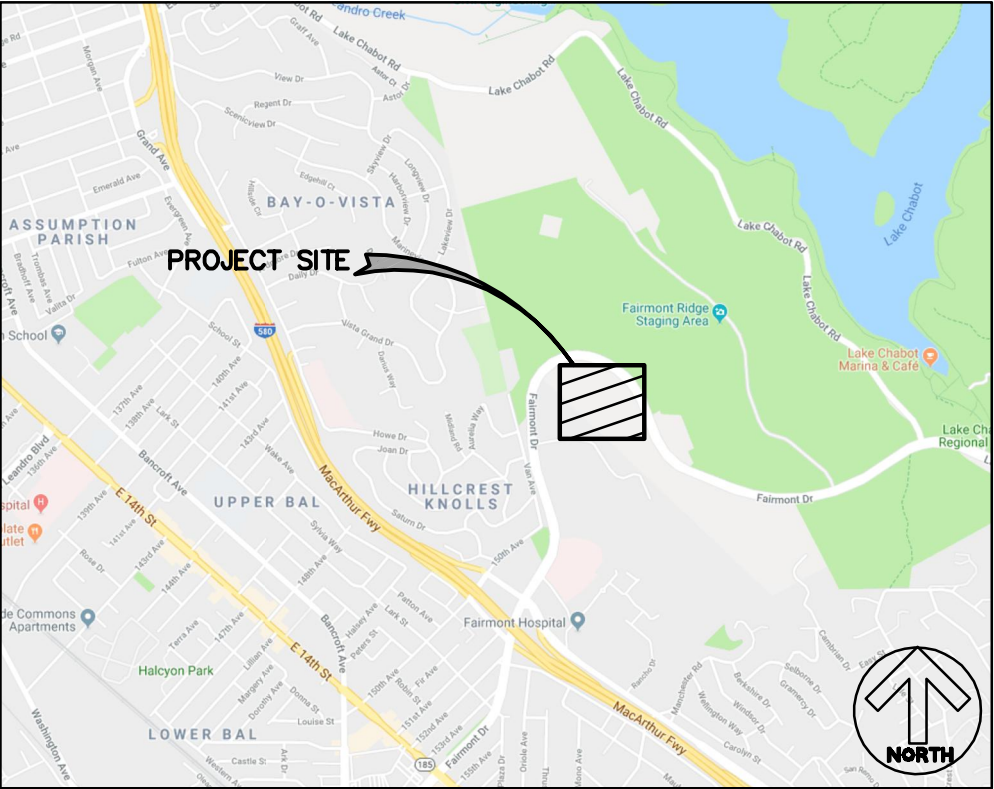


# JUVENILE JUSTICE CENTER STAIRWAY RECONSTRUCTION SAN LEANDRO, ALAMEDA COUNTY, CALIFORNIA



**VICINITY MAP**  
N.T.S.

**PROJECT CONTACTS**

PROPERTY OWNER:

ALAMEDA COUNTY  
ATTN: RICH LOWTHER  
2054 FAIRMONT DRIVE  
SAN LEANDRO, CA 94578

CIVIL ENGINEER:

BKF ENGINEERS  
1730 N. FIRST STREET  
SAN JOSE, CA 95112  
(408) 467-9100  
CONTACT: COLE GAUMNITZ

CONTRACTOR:

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
PHONE: \_\_\_\_\_  
CONTACT: \_\_\_\_\_

**SHEET INDEX:**

1	C1.0	TITLE SHEET, INDEX & NOTES
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3	C1.2	GENERAL NOTES
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**BASIS OF BEARINGS**

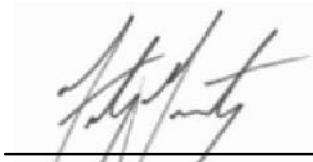
SURVEY IS BASED ON ASSUMED HORIZONTAL DATUM.

**TITLE 24 / ADA NOTES**

- ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
- MAXIMUM CROSS-SLOPE ON ANY SIDEWALK SHALL BE 2%.

**ENGINEER'S STATEMENT**

THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

  
\_\_\_\_\_  
COLE GAUMNITZ, P.E.  
BKF ENGINEERS  
R.C.E. NO. 75787

MAY 25, 2018  
\_\_\_\_\_  
DATE



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GENERAL

1.

ALL WORK SHALL BE IN ACCORDANCE WITH THE APRIL 2008 ENGINEERING DESIGN GUIDELINES FOR UNINCORPORATED ALAMEDA COUNTY, AUGUST 2008 DESIGN GUIDELINES (SD) FOR ALAMEDA COUNTY, AND THE LATEST EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS.
2.

THE CONTRACTOR SHALL KEEP AND MAKE AVAILABLE A COPY OF THE APPROVED PLANS AT THE JOB SITE AT ALL TIMES WHEN WORK IS IN PROGRESS.
3.

APPROVAL OF THESE PLANS BY THE CITY ENGINEER SHALL NOT RELEASE THE DEVELOPER OR THEIR ENGINEER FROM THE RESPONSIBILITY FOR THE DESIGN OF THE IMPROVEMENTS AND FOR ANY DEFICIENCIES RESULTING FROM THE DESIGN THEREOF.
4.

CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE STATE OF CALIFORNIA BEST MANAGEMENT PRACTICES HANDBOOK FOR APPLICABLE CONTROL MEASURES AND EMPLOY ITS PROVISIONS THROUGHOUT ALL CONSTRUCTION.
5.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY TO PERFORM THE IMPROVEMENTS IN THESE PLANS FROM THE APPROPRIATE AGENCIES AND TO COMPLY WITH THE AGENCIES' REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL LAWS.
6.

SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, IF THE CONTRACTOR, IN THE COURSE OF WORK, FINDS ANY DISCREPANCY BETWEEN THE PLANS AND PHYSICAL CONDITIONS IN THE FIELD, ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE SURVEY STAKES, THE CONTRACTOR SHALL CONTACT BKF AT (408) 467-9600 FOR SUCH FURTHER EXPLANATION AS MAY BE NECESSARY.
7.

CONTRACTOR SHALL CAREFULLY PRESERVE THE SURROUNDING PROPERTY BY CONFINING OPERATION WITHIN THE LIMITS OF WORK AREA. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER/OWNER.
8.

ALL PUBLIC IMPROVEMENT WORK BY THE CONTRACTOR SHALL BE DONE UNDER THE INSPECTION OF, AND THE SATISFACTION AND ACCEPTANCE OF, THE CITY ENGINEER OR THE DISTRICT ENGINEER. IN THE EVENT OF ANY DISPUTE ARISING AS TO THE INTERPRETATION OF THE LOCAL AGENCIES' SPECIFICATIONS OR DETAILS OR THE CHARACTER OF THE WORK DONE BY THE CONTRACTOR, THE DECISION OF THE CITY ENGINEER OR DISTRICT ENGINEER SHALL BE CONCLUSIVE.
9.

CONTRACTOR SHALL KEEP UP-TO-DATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT LOCATION, SIZES, MATERIALS AND EQUIPMENT. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE ENGINEER.
10.

CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
11.

ALL CONSTRUCTION MATERIALS, EQUIPMENT, AND DEBRIS ARE PROHIBITED FROM BEING STORED IN THE PUBLIC RIGHT OF WAY. LANE CLOSURES FOR PARKING, STORAGE OF MATERIALS AND/OR EQUIPMENT, OR STOCKPILING WILL NOT BE PERMITTED.
12.

SIDEWALK AND/OR WALKWAY AREAS TO REMAIN FREE AND CLEAR OF ANY OBSTRUCTIONS AND TO ALLOW FOR THE SAFE PASSAGE OF THE GENERAL PUBLIC. ANY CONSTRUCTION FENCING SHALL BE BEHIND THE PROPERTY LINE. ALL CONSTRUCTION-RELATED DEBRIS TO BE PLACED ON PRIVATE PROPERTY.
13.

THE APPLICANT SHALL BE RESPONSIBLE FOR CONTROLLING ANY

- RODENT, MOSQUITO, OR OTHER PEST PROBLEM DUE TO CONSTRUCTION ACTIVITIES.
14.

THE CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE CONSTRUCTION SAFETY ORDERS OF THE STATE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH PERTAINING TO EXCAVATION AND TRENCHES PER SECTION 306 OF THE STANDARD PROVISIONS. FOR DEEP TRENCHES, THE CONTRACTOR SHALL SUBMIT TO THE CITY A COPY OF THEIR ANNUAL OR SINGLE PROJECT PERMIT FOR TRENCH AND EXCAVATIONS FROM THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS DIVISION OF OCCUPATIONAL SAFETY AND HEALTH.
15.

CONSTRUCTION ACTIVITIES, INCLUDING THE MAINTENANCE AND WARMING OF EQUIPMENT, SHALL BE LIMITED TO MONDAY THROUGH FRIDAY, AND NON-CITY HOLIDAYS, BETWEEN THE HOURS OF 7:30 A.M. TO 5:30 P.M EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER. THE CITY ENGINEER WILL CONSIDER REQUESTS FOR WORK OUTSIDE OF THESE HOURS ON A CASE-BY-CASE BASIS (BUT SHALL NOT BE APPROVED FOR WORK ON SUNDAYS) AND ADVANCE NOTICE MUST BE PROVIDED TO NEARBY RESIDENTIAL PROPERTIES IN COMPLIANCE WITH STANDARD CITY POLICY. APPROVAL OF THE REQUEST WILL BE CONSISTENT WITH CITY POLICY AND WILL NOT BE UNREASONABLY WITHHELD.
16.

ALL EQUIPMENT USED DURING THE CONSTRUCTION OPERATION SHALL HAVE PROPERLY INSTALLED MUFFLER AND EXHAUST SYSTEMS.
17.

THE CONTRACTOR SHALL BE RESPONSIBLE COORDINATING INSPECTION PERFORMED BY OTHER GOVERNMENTAL AGENCIES, AS PRESCRIBED IN THEIR PERMITS AND APPROVALS.
18.

ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION AND ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING OR OTHER DUST-PALLIATIVE MEASURES TO CONTROL DUST AS CONDITIONS WARRANT OR AS DIRECTED BY THE CITY ENGINEER.
19.

THE COUNTY WILL NOT PERFORM THE FINAL INSPECTION UNTIL THE CONTRACTOR COMPLETES ALL WORK AND FINAL CLEANUP OF THE SITE.

LEGAL RELATIONS AND RESPONSIBILITY

20.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA AND SHALL HAVE AND MAINTAIN A VALID CITY BUSINESS LICENSE.
21.

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL PERMITS, LICENSES OR OTHER AUTHORIZATIONS APPLICABLE TO THE WORK WITH RESPECT TO THE ENVIRONMENTAL QUALITY ACT.
22.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN FENCES, BARRIERS, LIGHTS AND SIGNS THAT ARE NECESSARY TO GIVE ADEQUATE WARNING TO THE PUBLIC AT ALL TIMES IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION'S TRAFFIC CONTROL MANUAL.
23.

NO MATERIAL OR EQUIPMENT SHALL BE STORED IN THE PUBLIC RIGHT-OF-WAY AFTER "NORMAL WORKING HOURS". AT THE END OF EACH DAY'S WORK AND AT OTHER TIMES WHEN CONSTRUCTION OPERATIONS ARE SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS FROM THE PUBIC RIGHT-OF-WAY.
24.

ALL WORK SHALL BE CONDUCTED IN A MANNER WHICH PREVENTS THE RELEASE OF HAZARDOUS MATERIALS OR HAZARDOUS WASTE TO THE SOIL OR GROUNDWATER, AND MINIMIZES THE DISCHARGE OF HAZARDOUS MATERIALS, HAZARDOUS WASTES, POLLUTED WATER AND SEDIMENTS TO THE STORM DRAIN SYSTEM.

NOTIFICATION

25.

IF ANY DAMAGE OCCURS TO AN UNDERGROUND FACILITY THAT RESULTS IN THE ESCAPE OF ANY FLAMMABLE, TOXIC OR CORROSIVE GAS OR LIQUID OR ENDANGERS LIFE, HEALTH, OR PROPERTY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND CALL THE 911 EMERGENCY TELEPHONE NUMBER TO NOTIFY LOCAL PUBLIC SAFETY OFFICIALS.
35.

NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600 AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOBSITE.
36.

CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY.
37.

IF ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, CONSTRUCTION WITHIN 100 FEET OF THESE MATERIALS SHALL BE HALTED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES.

CONSTRUCTION AND SITE MAINTENANCE NOTES

38.

EROSION CONTROL FACILITIES SHOWN ON THIS PLAN SET SHALL BE INSTALLED AS REQUIRED BY THE CITY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATERS INTO EXISTING STORM DRAIN FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED/UPDATED EACH YEAR, PRIOR TO SEPTEMBER 30TH, AND SHALL BE SIGNED BY THE CITY ENGINEER.
39.

THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
40.

A CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL OSHA) PERMIT SHALL BE OBTAINED FOR TRENCHES FIVE FEET OR GREATER IN DEPTH. A COPY OF THIS PERMIT SHALL BE SUPPLIED TO THE PUBLIC WORKS DEPARTMENT. AN ADDITIONAL COPY SHALL BE KEPT AT THIS JOBSITE AT ALL TIMES.
41.

MEASURES SHALL BE TAKEN TO CONTAIN ALL CONSTRUCTION RELATED TRASH, DEBRIS, AND MATERIALS ON-SITE UNTIL DISPOSAL OFF-SITE CAN BE ARRANGED. THE DEVELOPER SHALL KEEP THE ADJOINING PUBLIC STREETS AND PROPERTIES FREE AND CLEAN OF PROJECT DIRT, MUD, AND MATERIALS DURING THE CONSTRUCTION PERIOD. THE DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTIVE MEASURES AT NO EXPENSE TO THE CITY OF DUBLIN.
42.

AN ENCROACHMENT PERMIT SHALL BE REQUIRED FOR ANY CONSTRUCTION ACTIVITY WITHIN A PUBLIC STREET WHICH HAS BEEN ACCEPTED BY THE CITY.
43.

TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT IN EXISTING CITY STREET AREAS. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING AND/OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF EVERY WORK DAY.



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UTILITY NOTES

44.

THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.
45.

INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THE PLANS.
46.

ELEVATIONS AND LOCATION OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES.
47.

IN THE EVENT OF WET UNSTABLE TRENCH BOTTOM OR IF GROUND WATER IS ENCOUNTERED, DEWATERING WILL BE REQUIRED. CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER FOR DEWATERING RECOMMENDATIONS.
48.

CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS DOWNSTREAM, CONTRACTOR SHALL PROCEED AT CONTRACTOR’S OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY CROSSINGS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
49.

IT IS THE CONTRACTOR’S RESPONSIBILITY TO POTHOLE AND/OR UNCOVER AND EXPOSE EXISTING UTILITIES AT CROSSING LOCATIONS. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND SERVICE LATERALS FROM DAMAGE DUE TO CONTRACTOR’S OPERATIONS. ANY AND ALL UTILITY SERVICE LATERALS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
50.

IT IS THE CONTRACTOR’S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE APPROPRIATE AGENCIES.

SUBSURFACE NOTES

51.

STRUCTURAL FILL WITHIN 5.0’ OF ROUGH GRADE SHALL BE COMPACTED TO A MINIMUM 90% RELATIVE COMPACTION. THE UPPER 6” OF SUBGRADE SOILS BENEATH PAVEMENTS SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
52.

FILL MATERIAL SHALL BE SPREAD AND COMPACTED IN LIFTS NOT TO EXCEED 8” IN UNCOMPACTED THICKNESS.
53.

ON–SITE TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM 90% RELATIVE COMPACTION. IN PAVEMENT AREAS THE UPPER 6” OF TRENCH BACKFILL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
54.

DRAINAGE BEHIND WALLS AND ABOVE GROUND WATER SHALL UTILIZE 1/2” TO 3/4” CRUSH WRAPPED IN FILTER FABRIC. DRAINAGE PANELS MAY BE UTILIZED IN LIEU OF GRAVEL DRAIN ROCK.

GRADING AND SURFACE IMPROVEMENT NOTES

55.

AT THE CONTRACTORS EXPENSE ALL GRADING SHALL BE INSPECTED AND TESTED BY A QUALIFIED SOILS ENGINEER OR UNDER THEIR DIRECTION. THE SOILS ENGINEER SHALL INSPECT AND TEST THE EXCAVATION, PLACEMENT OF FILLS AND BACKFILLS AND COMPACTION OF TRENCHES. THE SOILS ENGINEER SHALL SUBMIT SOILS REPORTS AS REQUIRED AND WILL DETERMINE THE SUITABILITY OF ANY FILL MATERIAL. UPON COMPLETION OF GRADING OPERATIONS THE SOILS ENGINEER SHALL STATE IN A REPORT TO THE COUNTY OF ALAMEDA THAT INSPECTIONS AND TESTS ARE MADE BY HIM/HER OR UNDER HIS/HER SUPERVISION AND THAT IN HIS/HER OPINION ALL EMBANKMENTS AND EXCAVATIONS WERE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED GRADING PLANS AND APPROVED REVISIONS THERETO AND ALL EMBANKMENTS AND EXCAVATIONS ARE ACCEPTABLE FOR THEIR INTENDED USE.
56.

LAMPBLACK SHALL BE ADDED AT THE RATE OF 1 PINT (POWDER) PER CUBIC YARD FOR ON SITE CURBS, GUTTERS, SIDEWALK, WALKWAY, DRIVEWAY APPROACHES, OR STRESS PAD.
57.

PORTLAND CEMENT CONCRETE SHALL CONFORM TO CLASS A, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
58.

THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE–TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.
59.

POSITIVE SURFACE GRADIENTS OF AT LEAST 2% MUST BE PROVIDED ADJACENT TO FOUNDATIONS IN ORDER TO DIRECT SURFACE WATER TOWARD COLLECTION AND DISCHARGE FACILITIES.
60.

CONTRACTOR SHALL DETERMINE EARTHWORK QUANTITIES BASED ON THE TOPOGRAPHIC SURVEY, THE GEOTECHNICAL INVESTIGATION AND THE PROPOSED SURFACE THICKNESS AND BASE THE BID ACCORDINGLY. ANY DIFFERENCES BETWEEN THE STATE IN WHICH THE SITE IS DELIVERED TO THE CONTRACTOR AND THESE DOCUMENTS SHOULD BE NOTED TO THE ENGINEER/ARCHITECT.
61.

ALL FILL SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT AND THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH TESTING AGENCY TO TAKE THE APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.
62.

IMPORT SOILS SHOULD MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT AND SPECIFICATIONS.
63.

DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
64.

IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.

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JUVENILE JUSTICE CENTER  
STAIRWAY RECONSTRUCTION  
GENERAL NOTES  
ALAMEDA COUNTY

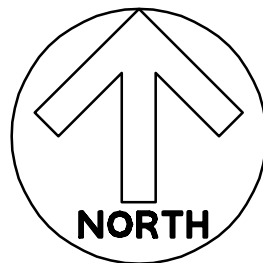
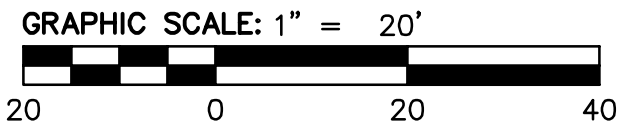
SAN LEANDRO

CALIFORNIA



255 SHORELINE DR.,  
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ENGINEERS · SURVEYORS · PLANNERS



## KEY NOTES

- ## **ABBREVIATIONS**

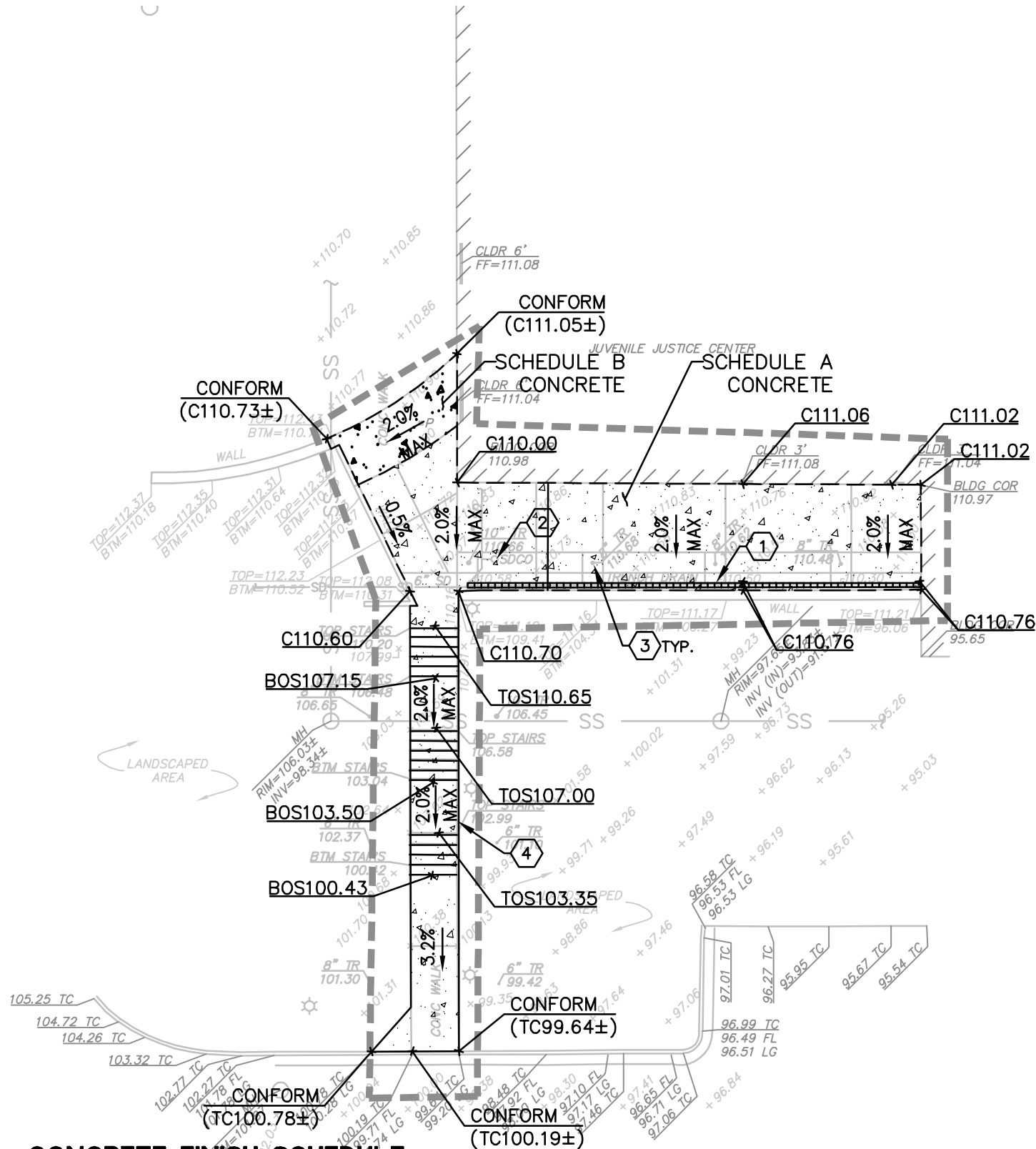
BLDG	BUILDING
BTM	BOTTOM
CLDR	CENTERLINE OF DOOR
COR	CORNER
CONC	CONCRETE
FF	FINISHED FLOOR
FL	FLOW LINE
LG	LIP OF GUTTER
MH	MANHOLE
TC	TOP OF CURB
TR	TREE
TYP.	TYPICAL

1. CONTRACTOR TO REVIEW ALL IMPROVEMENT DRAWINGS, NOTES AND DETAILS PRIOR TO THE START OF DEMOLITION.
2. PRIOR DEMOLITION ALL BENCHES AND PICNIC TABLES SHALL BE SALVAGED AND REUSED.
3. EXISTING TRENCH DRAIN SHALL BE SALVAGED. CONTRACTOR TO INSPECT SLOT DRAIN FOR ANY DAMAGES FROM SETTLEMENT. IF TRENCH DRAIN IS NOT DAMAGED, SLOT DRAIN WILL BE REUSED.
4. CONTRACTOR TO TAKE EXTRA CARE IN REMOVING EXISTING TREE WELLS.
5. IT IS THE INTENT OF THESE DRAWINGS TO PROTECT ALL UTILITIES IN PLACE.



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CONCRETE FINISH SCHEDULE

ITEM	MFR.	CATALOG NO.	MATERIAL	FINISH	COLOR
CONC. PAVING FINISH A	DAVIS COLORS	800/800-6856	PORTLAND CEM. INTEGRAL COLOR	LSB	DUNE
CONC. PAVING FINISH B	DAVIS COLORS	800/800-6856	PORTLAND CEM. INTEGRAL COLOR	LSB	SUNSET ROSE

LEGEND

- LIMIT OF WORK
- CONFORM LINE
- [Pattern] NEW CONCRETE (SCHEDULE A)  
(SEE SHEET S1.0 FOR STRUCTURAL SECTION)
- [Pattern] NEW CONCRETE (SCHEDULE B)  
(SEE SHEET S1.0 FOR STRUCTURAL SECTION)
- 3.6% DIRECTION OF DOWNWARD SLOPE AND  
GRADIENT
- TC100.27 SPOT ELEVATION
- TRENCH DRAIN (MINIMUM 0.5% SLOPE)

CONSTRUCTION NOTES

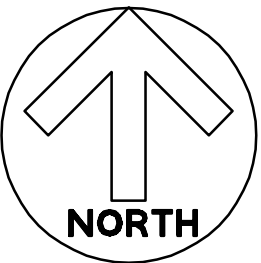
1. INSTALL NEW TRENCH DRAIN PER DETAIL 2 ON C5.0. CONTRACTOR TO VERIFY CONNECTION POINT AND CONNECTION INVERT PRIOR INSTALLATION
2. ADJUST TO GRADE STORM CLEAN OUT (LID IS LABELED AS SANITARY SEWER). CONTRACTOR TO VERIFY THAT THERE IS NO DAMAGE TO STORM LATERAL. NOTIFY ENGINEER IF THERE IS DAMAGE
3. INSTALL SALVAGED TREE WELL
4. INSTALL NEW STAIRS PER GRADES, AND PER STRUCTURAL PLAN S1.0

ABBREVIATIONS

BLDG	BUILDING
BTM	BOTTOM
BOS	BOTTOM OF STEP
C	CONCRETE
CLDR	CENTERLINE OF DOOR
COR	CORNER
FF	FINISHED FLOOR
FL	FLOW LINE
GB	GRADE BREAK
LG	LIP OF GUTTER
MG	MANHOLE
TC	TOP OF CURB
TOS	TOP OF STEP
TR	TREE
TYP.	TYPICAL

NOTES

1. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO POURING CONCRETE.
2. CONTRACTOR TO INSPECT SOIL FOR ANY DAMPNES. SHOULD CONTRACTOR FIND DAMP SOIL, CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY.
3. CONTRACTOR TO INSPECT ALL UTILITY POINT OF CONNECTIONS AND VERIFY INVERTS PRIOR INSTALLING/ADJUSTING EXISTING UTILITY FACILITIES.



GRAPHIC SCALE: 1" = 20'



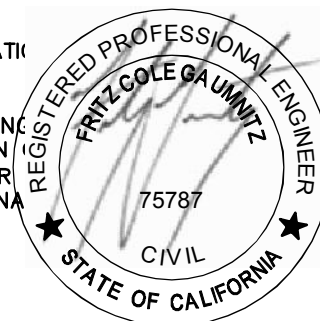
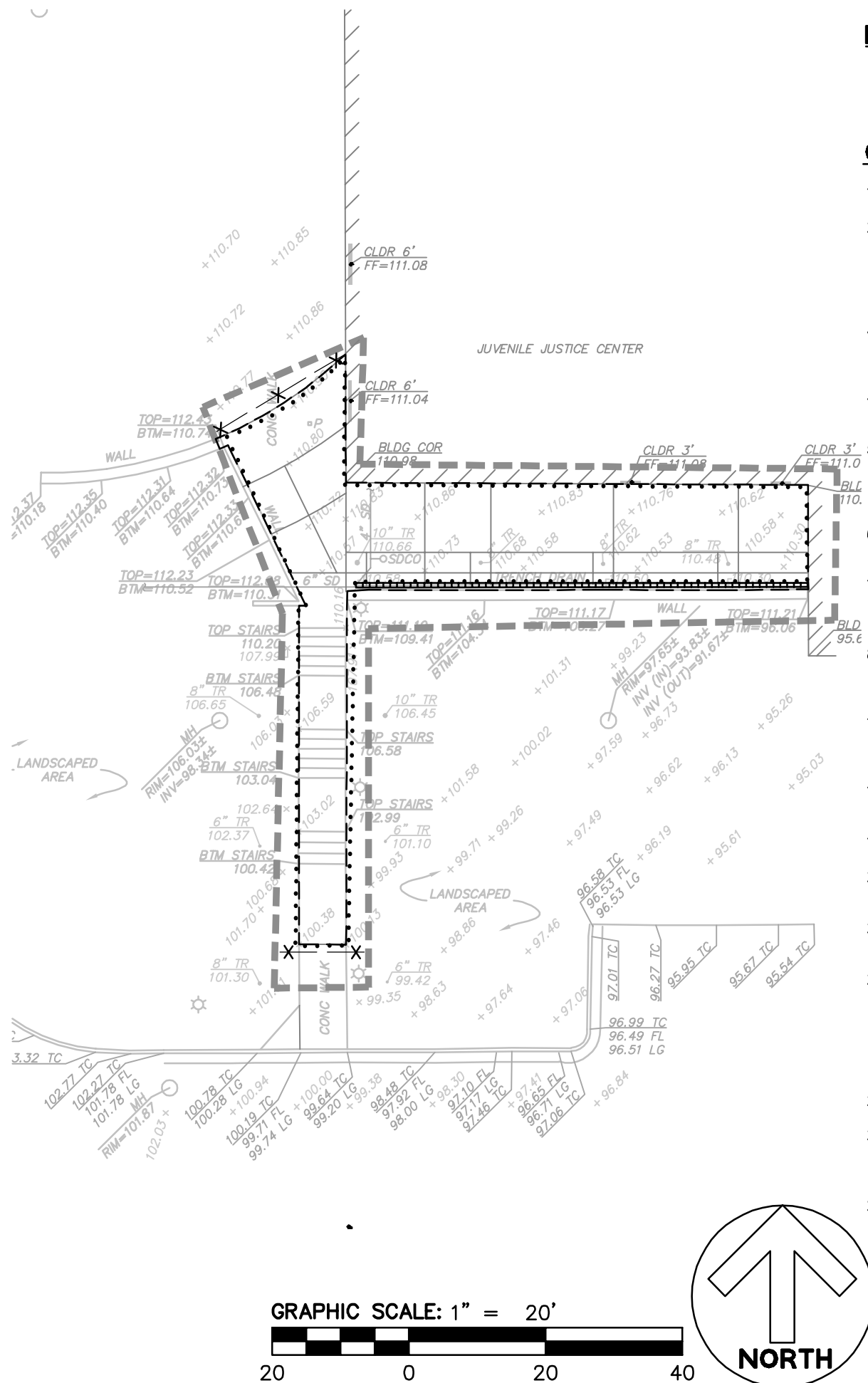


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	Approved	FGD		
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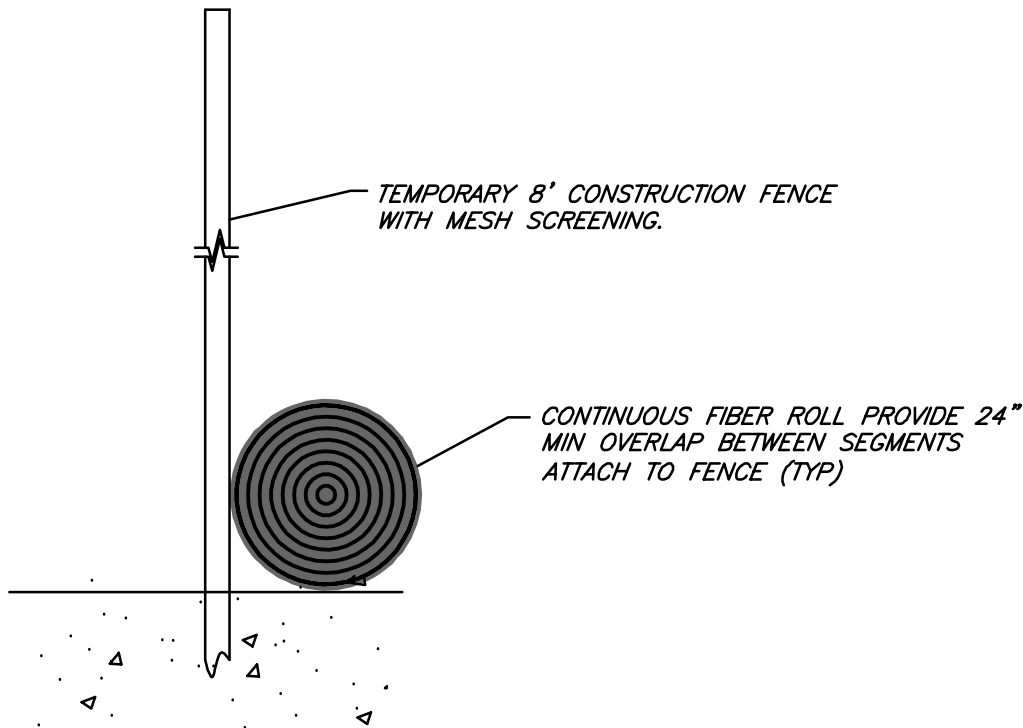
—X— —X— —X—      6' CONSTRUCTION FENCE WITH GREEN SCREENING

• • • • •      FIBER ROLL PER DETAIL A OR B ON SHEET C4.1

1. THIS SHEET IS INTENDED FOR EROSION AND SEDIMENT CONTROL ONLY.
2. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ANY SEDIMENT FROM LEAVING THE SITE, FIBER ROLLS, SAND BAGS AND ADDITIONAL SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY OR PERMANENT CATCH BASINS SHALL USE THE SEDIMENT BARRIERS SHOWN ON THIS PLAN.
3. EROSION CONTROL MEASURES ARE INTENDED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CITY STORM DRAIN SYSTEM, SANITARY SEWER SYSTEM OR FROM LEAVING THE SITE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE FIELD TO MAKE SURE THAT THIS CONCEPT IS CARRIED OUT.
4. EROSION CONTROL FACILITIES AND MEASURES ARE TO BE INSTALLED AND OPERABLE BY OCTOBER 1st AND SHALL CONTINUE IN EFFECT UNTIL JUNE 1st OR UNTIL INSTALLATION OF THE PERMANENT SITE IMPROVEMENTS.
5. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED, AS REQUIRED, AT THE CONCLUSION OF EACH WORKING DAY. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL FACILITIES AND MAKE NECESSARY REPAIRS PRIOR TO ANTICIPATED STORMS AND AT REASONABLE INTERVALS DURING STORMS OF EXTENDED DURATION. REPAIRS TO DAMAGED FACILITIES SHALL BE MADE IMMEDIATELY UPON DISCOVERY.
6. AS SOON AS PRACTICAL FOLLOWING EACH STORM, THE CONTRACTOR SHALL REMOVE ANY ACCUMULATION OF SILT OR DEBRIS FROM THE EROSION CONTROL SEDIMENT BASINS AND SHALL CLEAR THE OUTLET PIPES OF ANY BLOCKAGE.
7. STOCKPILED MATERIAL SHALL BE COVERED WITH VISQUEEN OR A TARPULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT MAY BE SEEDED OR PLANTED TO PROVIDE GROUND COVER.
8. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
17. EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE OWNER. THE OWNER AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH APPROVED PLANS.
18. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
19. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.
20. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
21. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING OR OTHER MEASURES AS APPROPRIATE.
22. CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN, DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE CITY INSPECTOR. THE ADJACENT STREET SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THEIR CONSTRUCTION, METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE CITY'S RIGHT-OF-WAY IS PERMITTED.
23. ALL EROSION CONTROL MATERIALS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.
24. THE BMPs SHOWN ON THIS PLAN ARE SUBJECT TO CHANGE. IF ADDITIONAL EROSION CONTROL MEASURES ARE NEEDED TO PROTECT THE SITE AND NEARBY AREAS, SUCH ADDITIONAL MEASURES SHALL BE INSTALLED AT THE DISCRETION OF THE CITY INSPECTOR.
25. IF CONSTRUCTION IS NOT COMPLETE BY THE START OF THE WET SEASON (OCTOBER 1 THROUGH APRIL 30), THE APPLICANT SHALL IMPLEMENT A WINTERIZATION PROGRAM TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION AS APPROPRIATE TO THE SITE AND STATUS OF CONSTRUCTION, WINTERIZATION REQUIREMENTS SHALL INCLUDE INSPECTING/MAINTAINING/CLEANING ALL SOIL EROSION AND SEDIMENTATION CONTROLS PRIOR TO, DURING, AND IMMEDIATELY AFTER EACH STORM EVENT; STABILIZING DISTURBED SOILS THROUGH TEMPORARY OR PERMANENT SEEDING, MULCHING, MATTING, TARPING OR OTHER PHYSICAL MEANS; ROCKING UNPAVED VEHICLE ACCESS TO LIMIT DISPERSION MUCH ONTO PUBLIC RIGHT-OF-WAY; AND COVERING/TARPING STORED CONSTRUCTION MATERIALS, FUELS, AND OTHER CHEMICALS. AS SITE CONDITIONS WARRANT, THE CITY ENGINEER MAY DIRECT THE APPLICANT TO IMPLEMENT ADDITIONAL WINTERIZATION REQUIREMENTS.

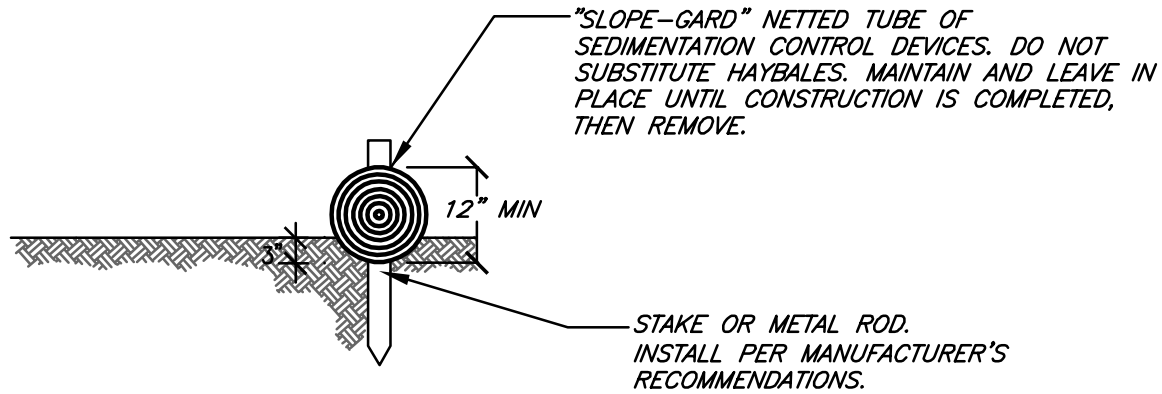


Revisions		No.	Date	By	Appr.
Sheet Number:					
C4.0					
7 of 9					



- NOTES:
1. SILT FENCE SHALL BE STAKED OR CLIPPED ALONG CONSTRUCTION SIDE OF CONSTRUCTION FENCING, IN BACK OF FIBER ROLLS.
  2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
  3. REMOVED SEDIMENT SHALL BE DEPOSITED IN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  4. USE REED & GRAHAM, INC. GEOSYNTHETICS STRAW WATTLE FIBER ROLL (COMES IN 9" X 25' ROLLS) OR EQUIVALENT.

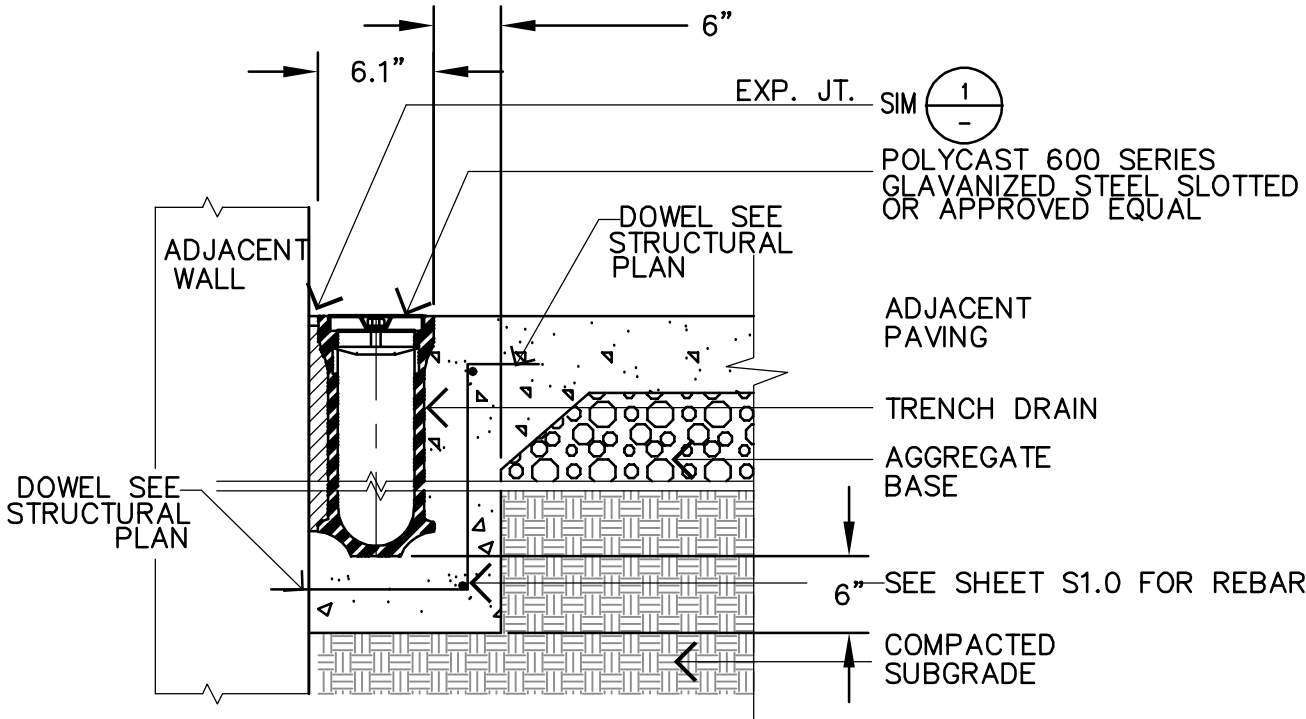
**A** SITE FENCE WITH SILT FENCE & FIBER ROLL  
N.T.S.



- NOTES:
1. SEE EROSION CONTROL PLAN SHEET C4.0 FOR LOCATION.

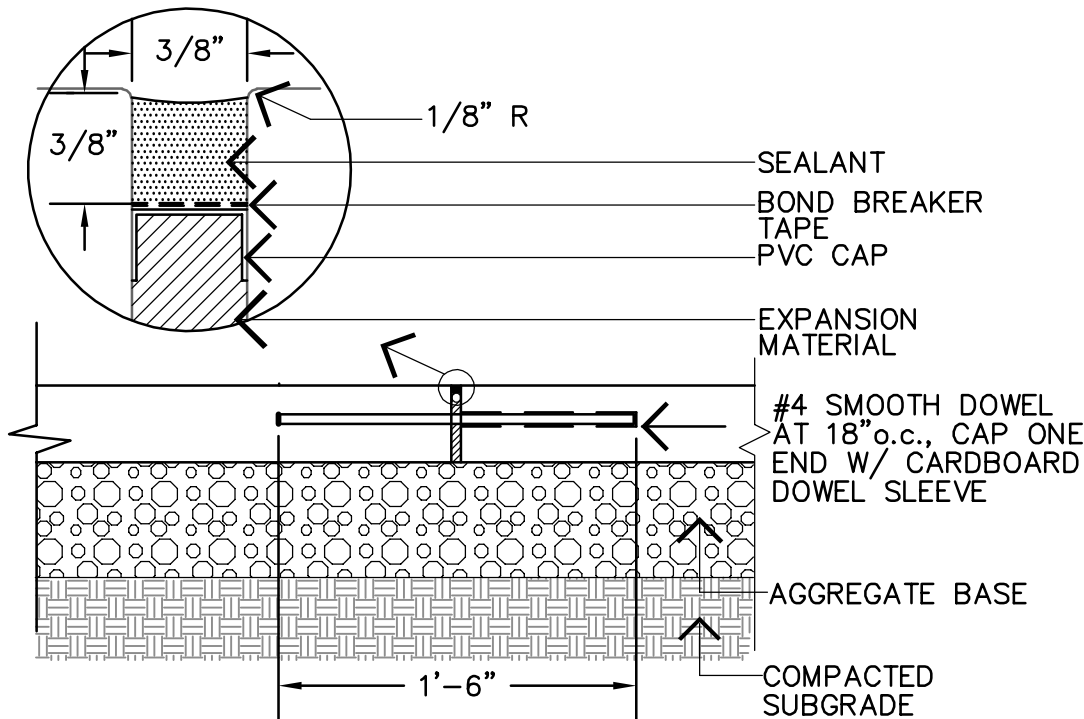
**B** FIBER ROLL ON SLOPE  
N.T.S.

NOTE: FOR CONCRETE SLAB, SEE SHEET S1.0.



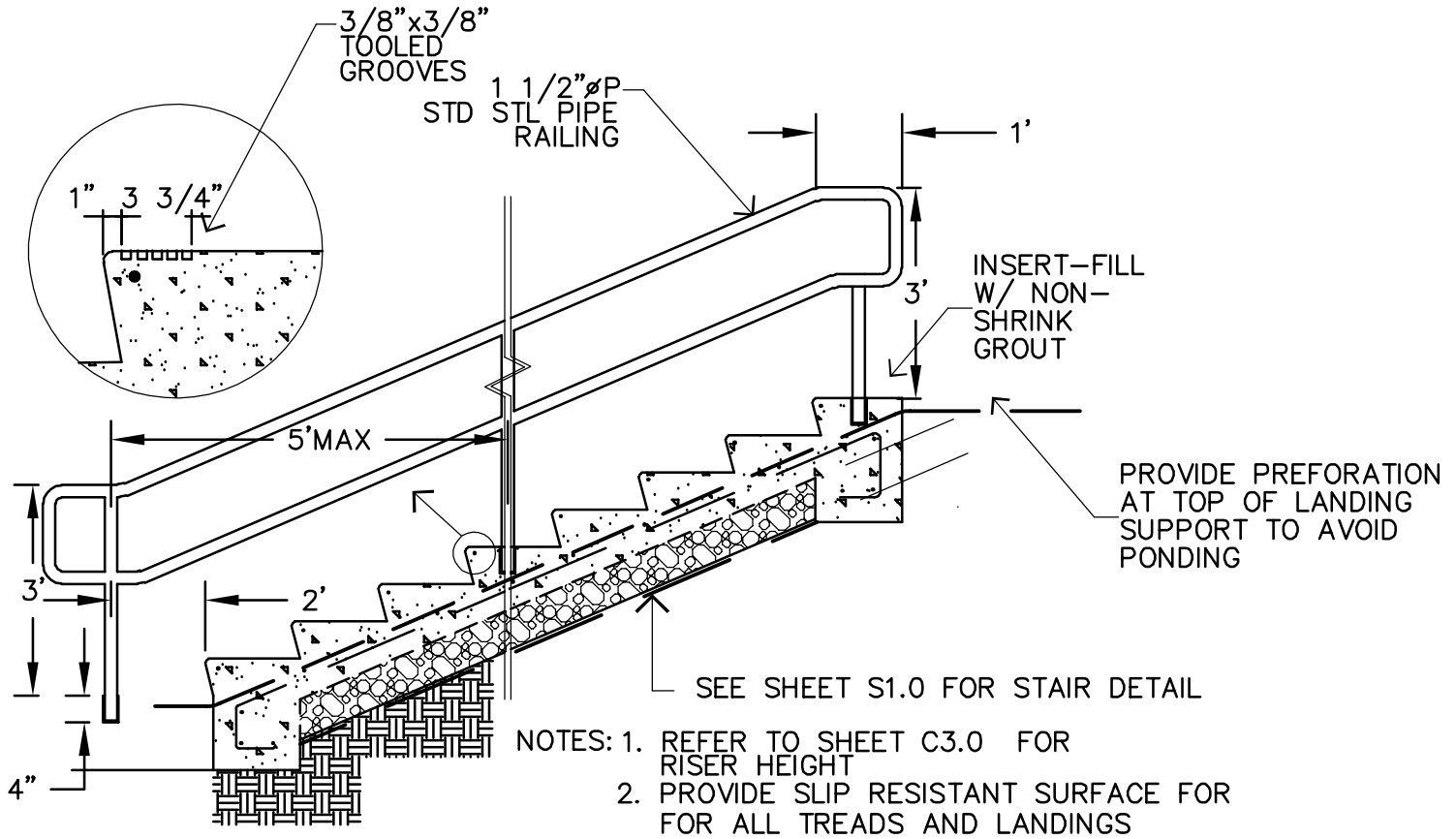
2

TRENCH DRAIN



1

EXPANSION JOINT



3

HANDRAIL



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CALIFORNIA

SAN LEANDRO

Revisions	No.	Date	By	Check
	1	04/26/18	AS	SD
	2	05/25/18	FCG	FCG
	3	05/25/18	FCG	FCG
	4	05/25/18	FCG	FCG
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GENERAL NOTES

- GENERAL
- 1.1 CONSIDER GENERAL NOTES AS APPLYING TO ALL STRUCTURAL DRAWINGS.
- 1.2 DO ALL WORK IN ACCORDANCE WITH ALL STATE AND LOCAL BUILDING CODES IN EFFECT AT THE PLACE OF THE BUILDING. DESIGN WAS PERFORMED IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE.
- 1.3 THE ENGINEER SHALL HAVE NO CONTROL OR CHARGE OF, NOR BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, SAFETY PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- 1.4 USE THE FOLLOWING STRUCTURE DESIGN LOADS/PARAMETERS:
- | SITE PARAMETERS |      |      |      |      |               |      |
|-----------------|------|------|------|------|---------------|------|
| SITE CLASS      | Ss   | S1   | Sos  | Sai  | RISK CATEGORY | le   |
| B               | 2.47 | 1.03 | 1.65 | 0.69 | II            | 1.00 |
- 1.5 CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN, IN A MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.
- 1.6 THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DEVELOPED FROM AVAILABLE "RECORD" DRAWINGS AND SOME MINOR FIELD VERIFICATION. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR THE COMPLETE ACCURACY OF THE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCES AND PROVISIONS FOR FIELD ADJUSTMENTS AS MAY BE REQUIRED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO START OF WORK FOR PRICING.
- 1.7 CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO BEGINNING OF CONSTRUCTION. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH WORK. COORDINATE STRUCTURAL DIMENSIONS WITH ARCHITECTURAL AND ALL OTHER DRAWINGS AND SPECIFICATIONS.
- 1.8 VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION BEFORE FABRICATION. NOTIFY ENGINEER OF ANY CONDITIONS THAT DIFFER FROM AS REPRESENTED ON THE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
- 1.9 ALL WORK SHALL BE DONE SO AS TO MINIMIZE DAMAGE TO EXISTING STRUCTURE AND FINISHES.
- 1.10 (E) DENOTES EXISTING CONSTRUCTION.
- 1.11 SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT OR WHERE THERE APPEARS TO BE AN ERROR ON THE DRAWINGS OR DISCREPANCY BETWEEN THE DRAWINGS AND FIELD CONDITION, THE ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE FOR A PROCEDURE TO BE FOLLOWED. IF THE CONTRACTOR PROCEEDS WITH THE WORK AFFECTED WITHOUT INSTRUCTIONS FROM THE ENGINEER, THE CONTRACTOR SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECTS. THIS INCLUDES TYPOGRAPHICAL ERRORS IN THE SPECIFICATIONS AND ERRORS ON THE DRAWINGS.
- 1.12 IN THE CASE WHERE TWO OR MORE DETAILS APPLYING TO THE SAME PART OF THE WORK ARE IN CONFLICT, THE MOST RESTRICTIVE SHALL GOVERN UNLESS CLARIFIED OR OTHERWISE APPROVED BY THE ENGINEER.
- 1.13 THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL CAREFULLY EXAMINE THE CONDITIONS AFFECTING HIS WORK BEFORE PROCEEDING AND SHALL REPORT TO THE ENGINEER ANY CONDITION WHICH WOULD PREVENT THE PROPER AND LEGAL COMPLETION OF HIS WORK. NOT RESOUNDING ANY SUCH UNSUITABLE CONDITION WILL CONSTITUTE ACCEPTANCE OF ALL CONDITIONS BY THE CONTRACTOR OR SUBCONTRACTOR.

FOUNDATIONS

- 2.1 DO EXCAVATIONS AS NEARLY AS POSSIBLE TO NEAT LINES REQUIRED BY SIZE AND SHAPE OF FOOTINGS WHICH ARE CAST IN EARTH TRENCHES WITHOUT FORMING, UNLESS OTHERWISE SHOWN. BACKFILL OVER EXCAVATIONS WITH CONCRETE OR NATIVE EARTH COMPACTED TO AT LEAST 90% RELATIVE COMPACTION. REFER TO SOILS REPORT (WHERE AVAILABLE) FOR ADDITIONAL REQUIREMENTS.
- 2.2 VOIDS CREATED FROM FORMED GRADEBEAMS OR FOUNDATION STEMWALLS SHALL BE BACKFILLED WITH NATIVE SOILS COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION.
- 2.3 ALLOWABLE SOIL PRESSURES:
- 2.3.1 2300 LBS/SQ. FT. FOR DEAD LOADS.
- 2.3.2 3500 LBS/SQ. FT. FOR COMBINED DEAD AND LIVE LOADS.
- 2.3.3 4700 LBS/SQ. FT. FOR COMBINED DEAD, LIVE AND SEISMIC/WIND LOADS.
- 2.4 A SOILS REPORT FOR THIS PROJECT HAS BEEN PREPARED BY GEOLABS, INC., 1440 BROADWAY, SUITE 804 OAKLAND, CA 94612. SEE SOILS REPORT NO. OL1058-00 DATED 10/22/04 FOR SPECIFIC DESIGN CRITERIA.
- 2.5 SEE SOILS ENGINEER'S REPORT PRIOR TO ANY SITE WORK, GRADING, SHORING, COMPACTION, LIME TREATMENT, OR EXCAVATION OF FOUNDATIONS. FOLLOW SOILS REPORT RECOMMENDATIONS AND PROCEDURES.

CONCRETE

- 3.1 STRUCTURAL CONCRETE SHALL CONFORM TO ACI318-14 CODE REQUIREMENTS.
- 3.2 CEMENT: ASTM C150 TYPE II. CEMENT SHALL BE OF SAME BRAND, TYPE AND SOURCE THROUGHOUT PROJECT. WHERE AGGREGATES ARE POTENTIALLY REACTIVE, USE LOW ALKALI CEMENT.
- 3.3 AGGREGATES: ASTM C33 AND C88 FROM SOURCES WITH PROVEN HISTORY OF SUCCESSFUL USE. SOURCE SHALL BE CONSTANT UNLESS 10 DAYS PRIOR NOTICE IS GIVEN FOR APPROVAL AFTER RECHECK OF MIX DESIGN. SUBMIT SHRINKAGE CHARACTERISTICS AS DETERMINED BY ASTM C157 TO ENGINEER FOR REVIEW AND APPROVAL BEFORE USE.
- 3.4 CONCRETE MIXES SHALL BE NORMAL WEIGHT CONCRETE U.O.N. CONFORMING TO APPLICABLE BUILDING CODE REQUIREMENTS REGARDLESS OF OTHER MINIMUM REQUIREMENTS SPECIFIED HEREIN OR ON THE DRAWINGS. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE USE. DESIGNS SHALL SHOW PROPORTIONS OF CEMENT, FINE AND COARSE AGGREGATES AND WATER, AND GRADATION OF COMBINED AGGREGATES.
- 3.5 PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED BELOW. INCREASE CEMENT CONTENT OVER THAT SHOWN, IF REQUIRED TO OBTAIN THE COMPRESSIVE STRENGTH:
- | LOCATION      | CONCRETE MIX DESIGN SCHEDULE           |                         |                  |                           |  |
|---------------|--|-------------------------|------------------|---------------------------|--|
|               | MIN. 28-DAY COMPRESSIVE STRENGTH (PSI) | MAX. WATER CEMENT RATIO | SUMP RANGE (IN.) | MAX. AGGREGATE SIZE (IN.) |  |
| SLAB-ON-GRADE | 3000                                   | 0.50                    | 3"-5"            | 1"                        |  |
- 3.5.1 MIX DESIGN MAY BE PROPORTIONED WITH UP TO MAXIMUM 15% FLY ASH PER WEIGHT OF CEMENTITIOUS MATERIAL PROVIDED 28 DAY COMPRESSIVE STRENGTH IS ACHIEVED.
- 3.6 USE INTERMEDIATE GRADE ASTM A615, GRADE 60 REINFORCING TYPICAL, U.O.N.
- 3.7 UNLESS OTHERWISE NOTED, OBSERVE THE FOLLOWING REINFORCEMENT CLEARANCES:
- 3.7.1 NON-PRESTRESSED CONCRETE POURED AGAINST EARTH: 3"
- 3.7.2 NON-PRESTRESSED CONCRETE EXPOSED TO EARTH OR WEATHER:
- A. NO. 3 - NO. 5 BARS: 1 1/2"
- B. NO. 6 - NO. 18 BARS: 2"
- 3.7.3 NON-PRESTRESSED CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
- A. NO. 3 - NO. 11 BARS: 3/4"
- B. NO. 14 - NO. 18 BARS: 1 1/2"
- 3.8 PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE SHOWN.
- 3.9 SECURE REINFORCING, ANCHOR BOLTS, INSERTS, ETC. RIGIDLY IN PLACE PRIOR TO POURING CONCRETE.
- 3.10 SUPPORT HORIZONTAL REINFORCING ON GALVANIZED CHAIRS EXCEPT MORTAR BLOCKS OR OTHER APPROVED METHOD OF SUPPORT MAY BE USED AT FOOTINGS, AND SLABS ON GRADE.
- 3.11 REMOVE FORMS AT FOLLOWING MINIMUM TIMES AFTER POURING:
- 3.11.1 AT SLAB EDGES - 24 HOURS
- 3.12 MAKE HOOKS ACI 318-14 STANDARD HOOKS UNLESS OTHERWISE NOTED. PROVIDE 135 DEGREE MINIMUM TURN, PLUS 4" EXTENSION AT FREE ENDS OF COLUMN PILASTER TIES.
- 3.13 MAKE LAPS CONTACT SPLICES, DEVELOPMENT LENGTHS, HOOK EMBEDMENTS PER ACI 318-14, UNLESS OTHERWISE NOTED. STAGGER LAP SPLICES WHERE POSSIBLE.
- 3.14 ALL REBAR SHALL BE COLD BENT.

ADHESIVES

- 4.1 CONCRETE EPOXY SHALL BE HILTI "HIT-RE 500 V3". INSTALL PER ICC ESR-3814. SPECIAL INSPECTION IS REQUIRED.
- 4.2 SUBSTITUTIONS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

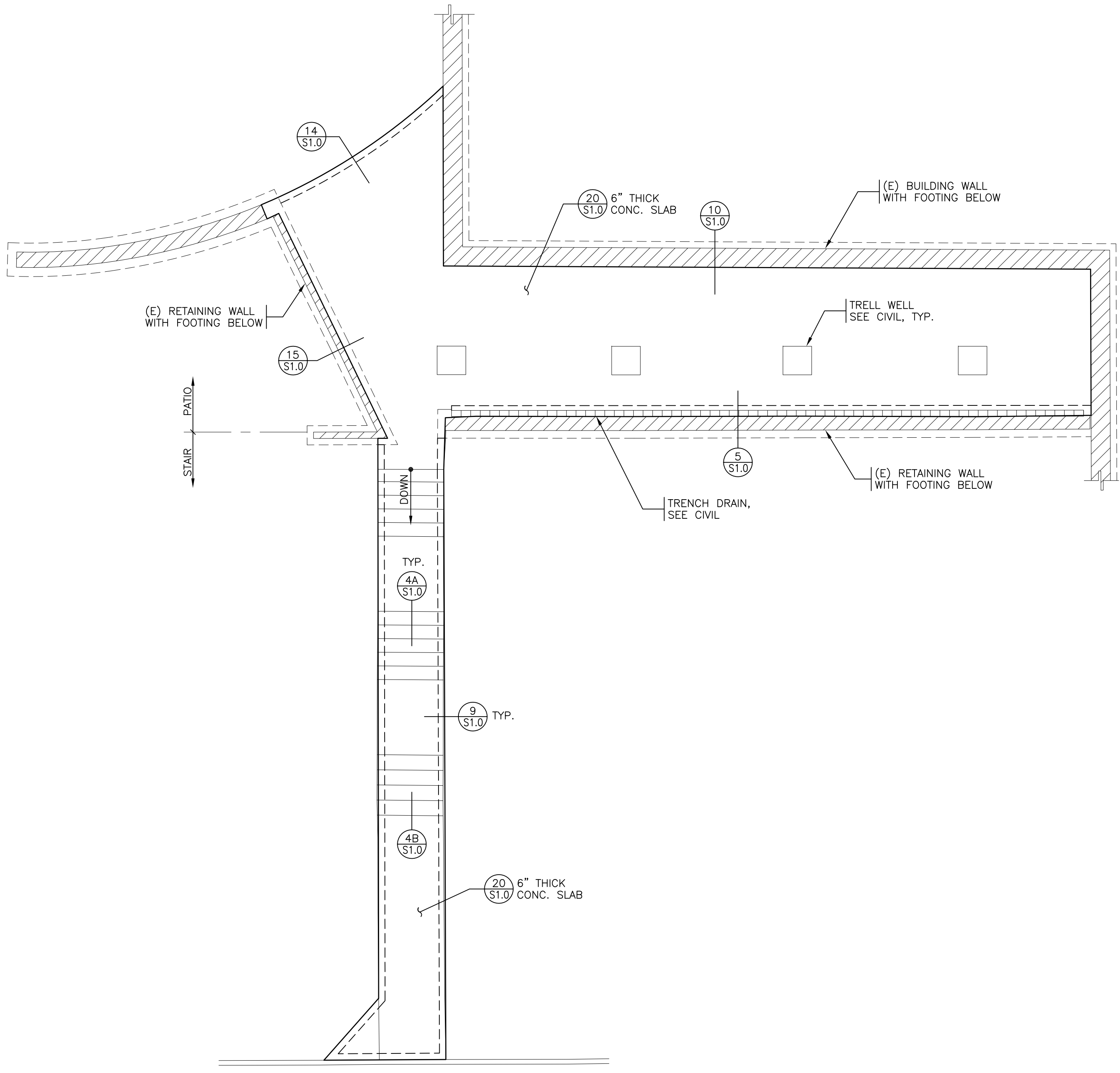
SPECIAL INSPECTIONS

- 5.1 PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE CALIFORNIA BUILDING CODE FOR THE FOLLOWING ITEMS:
- 5.1.1 PLACEMENT OF REINFORCING STEEL.
- 5.1.2 TAKING OF TEST SPECIMENS AND PLACING OF ALL CONCRETE.
- 5.1.3 INSTALLATION OF REBAR IN EPOXY (WHERE REQ'D ON DETAILS).
- 5.2 GENERAL CONTRACTOR SHALL OBTAIN SPECIAL INSPECTION FORMS FROM THE CITY. FORMS SHALL BE COMPLETED, SIGNED, AND RESUBMITTED PRIOR TO PERMIT ISSUE.
- 5.3 THE ENGINEER HAS NOT BEEN RETAINED FOR SUPERVISION OR INSPECTIONS, BUT WILL RESOLVE IN WRITING ITEMS BROUGHT TO HIS ATTENTION. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR VERBAL INSTRUCTIONS.
- 5.4 SPECIAL INSPECTION AGENCY AND ALL SPECIAL INSPECTORS SHALL BE RECOGNIZED AND APPROVED BY THE CITY BUILDING OFFICIAL AS DESCRIBED IN THE CURRENT EDITION OF THE SPECIAL INSPECTION AGENCY RECOGNITION LIST WHICH IS PUBLISHED BY THE ICC SPECIAL INSPECTION COMMITTEE.

SYMBOLS LEGEND

NOTE: THE SYMBOLS LEGEND BELOW IS GENERIC. FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL CALLOUTS, SEE PLANS, REFERENCED DETAILS AND REFERENCED NOTES.

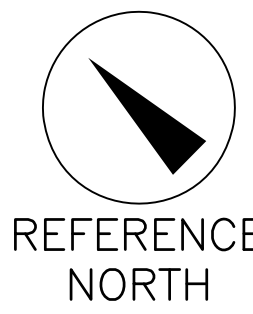
- CAST IN PLACE CONCRETE
- EXISTING CONCRETE OR CMU
- FOOTING BELOW
- EARTH / SOIL / GRADE
- ROCK OR GRAVEL
- CENTERLINE
- DETAIL NUMBER
- SHEET NUMBER
- F.F. FINISHED FLOOR



STAIR AND PATIO FOUNDATION PLAN

SCALE 1/8"=1'-0"

- NOTE:
1. SEE GENERAL NOTES ON THIS SHEET.
2. SEE CIVIL DRAWING FOR DIMENSIONS, ELEVATIONS AND OTHER INFORMATION.
3. LAP SPLICE REBAR AS REQ'D PER 19/S1.0.
4. SEE CIVIL DRAWINGS FOR SAWCUTS/WEAKENED PLANE JOINTS.



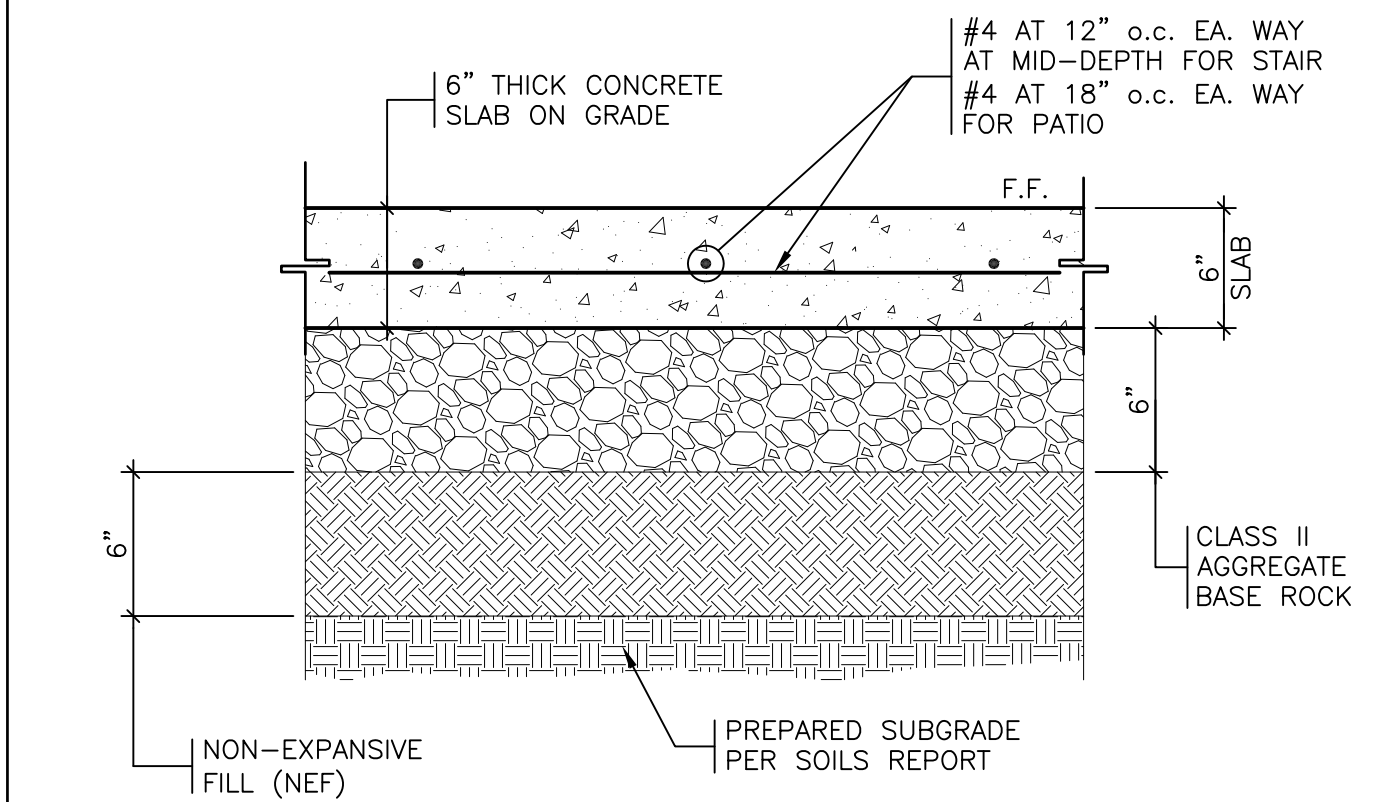
REFERENCE NORTH

LOCATION	CONC. F'c (psi)	STEEL Fy (ksi)	BAR SIZE										
			"Ld"=LAP SPLICE (in)										
			3	4	5	6	7	8	9	10	11		
TOP	3000	60	28	38	47	56	81	93	105	118	131		
OTHER	3000	60	22	29	36	43	63	72	81	91	101		
TOP	4000	60	25	33	41	49	71	81	91	102	114		
OTHER	4000	60	19	25	31	37	54	62	70	79	87		
TOP	5000	60	22	29	36	44	63	72	81	92	102		
OTHER	5000	60	17	23	28	34	49	56	63	71	78		
TOP	6000	60	20	27	33	40	58	66	74	84	93		
OTHER	6000	60	16	21	26	31	45	51	57	64	71		
TOP	7000	60	19	25	31	37	54	61	69	77	86		
OTHER	7000	60	14	19	24	28	41	47	53	60	66		

NOTES:

1. LAP LENGTHS SHOWN IN THE SCHEDULE ARE BASED ON CURRENTLY ADOPTED ACI-318 25.5 WITH CLEAR SPACING OF BARS BEING SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db, WHERE "db" IS THE NOMINAL BAR DIAMETER. WHERE EITHER OF THESE CONDITIONS IS NOT MET, INCREASE LAP LENGTH BY 50%. CONCRETE COVER SHALL NOT BE LESS THAN REQUIRED IN THE CONCRETE SECTION OF THE GENERAL NOTES.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR.
3. THE SMALLER LAP SPLICE LENGTH MAY BE USED WHEN TWO BARS OF DIFFERENT SIZES ARE TO BE LAPPED.
4. LAP SPLICE LENGTH SHALL BE INCREASED BY 34% FOR LIGHT WEIGHT CONCRETE.

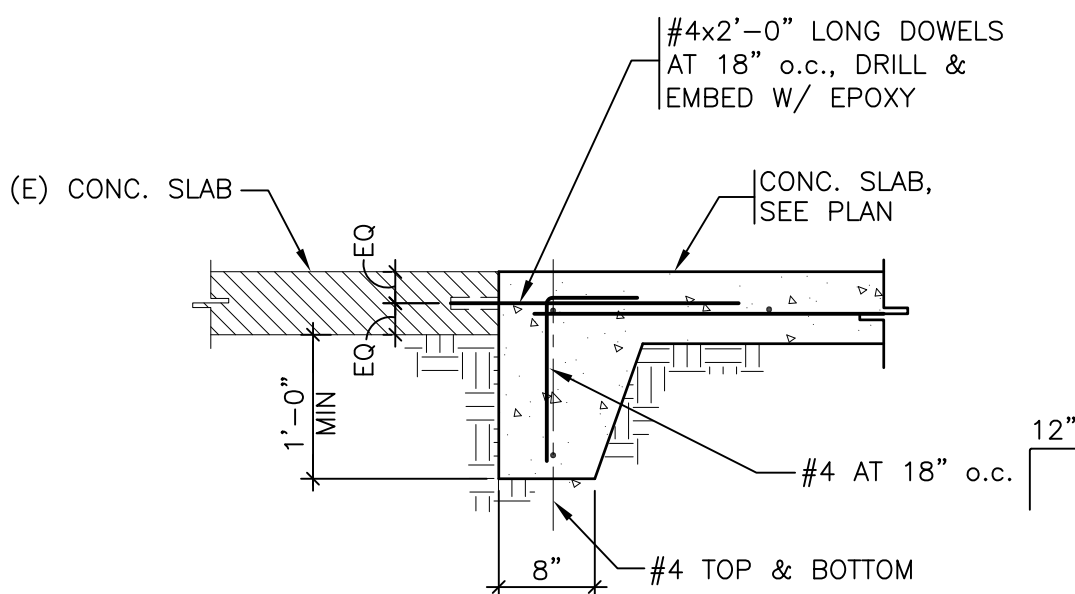
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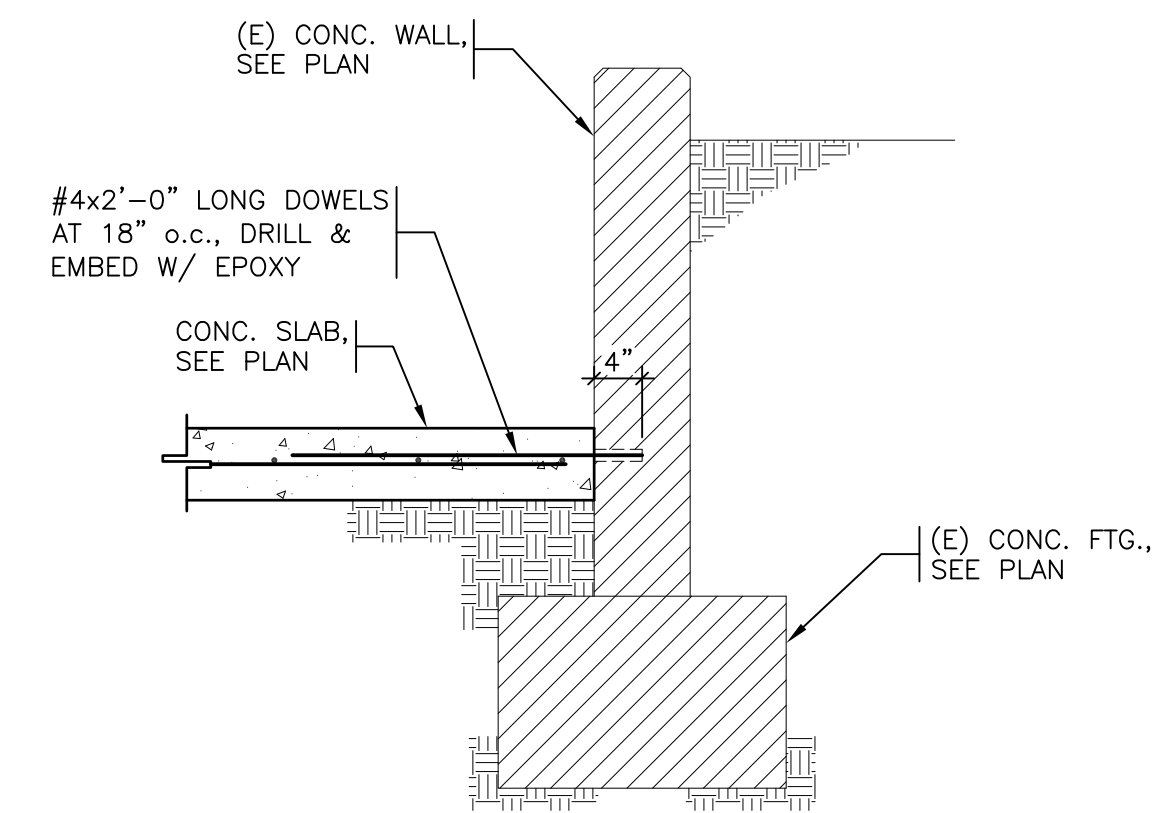
CONCRETE SLAB ON GRADE

SEE GEOTECHNICAL REPORT (SOILS REPORT) FOR ADDITIONAL INFORMATION, REQUIREMENTS, AND OPTIONAL SUBSTITUTIONS.

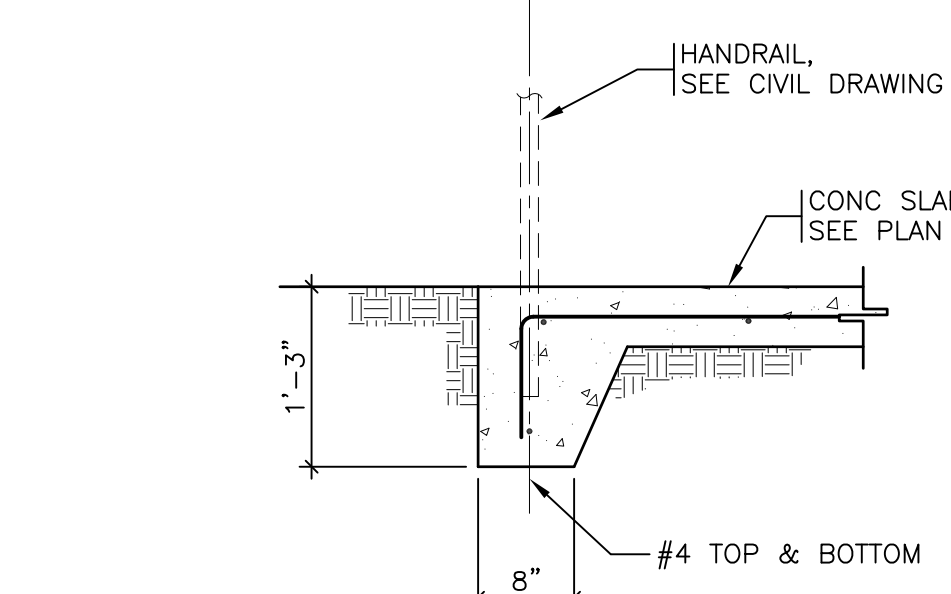
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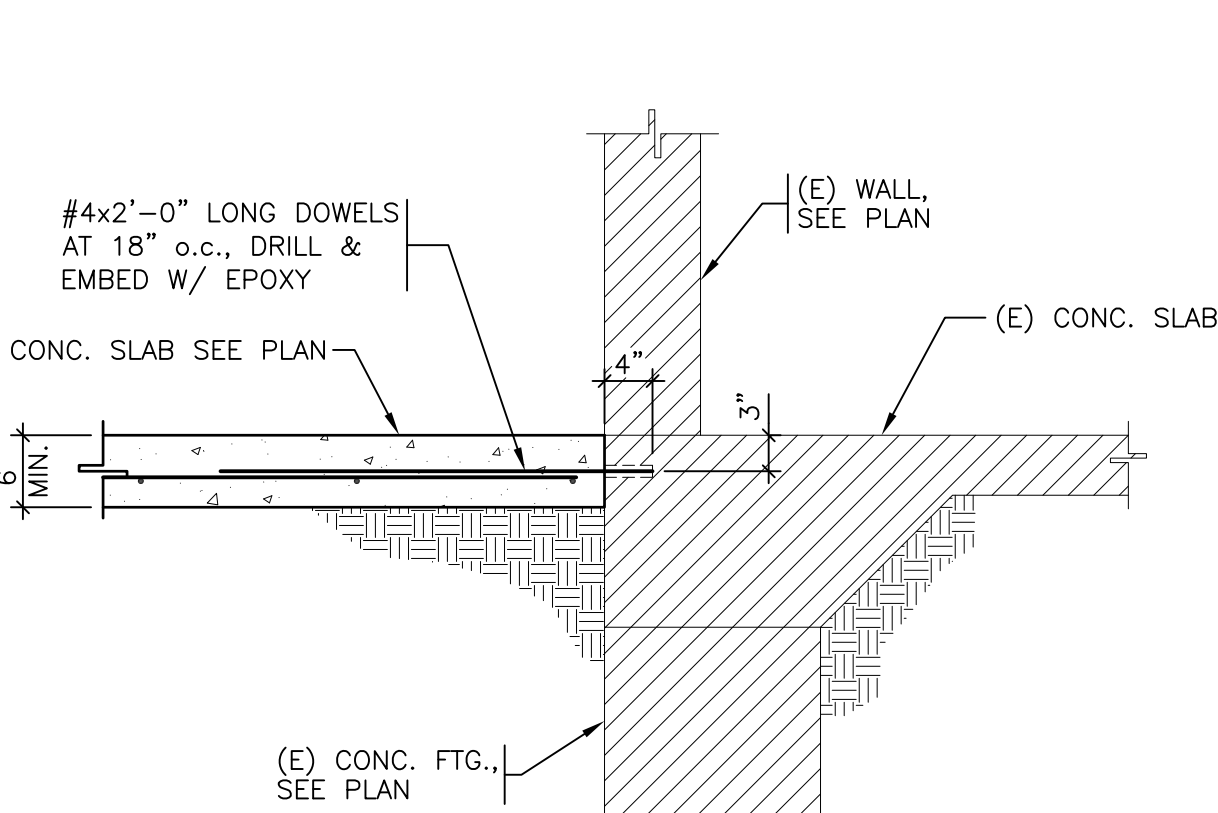
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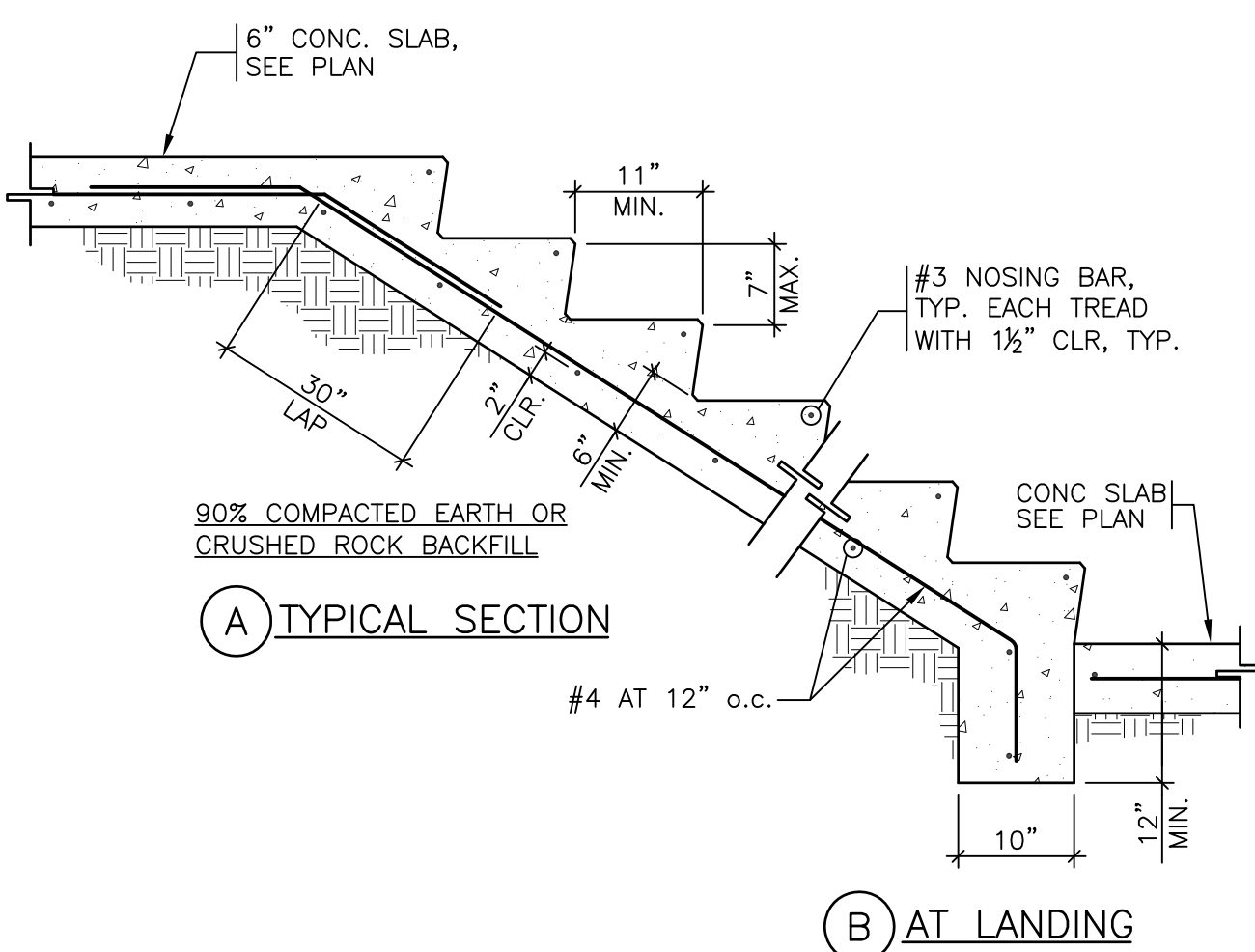
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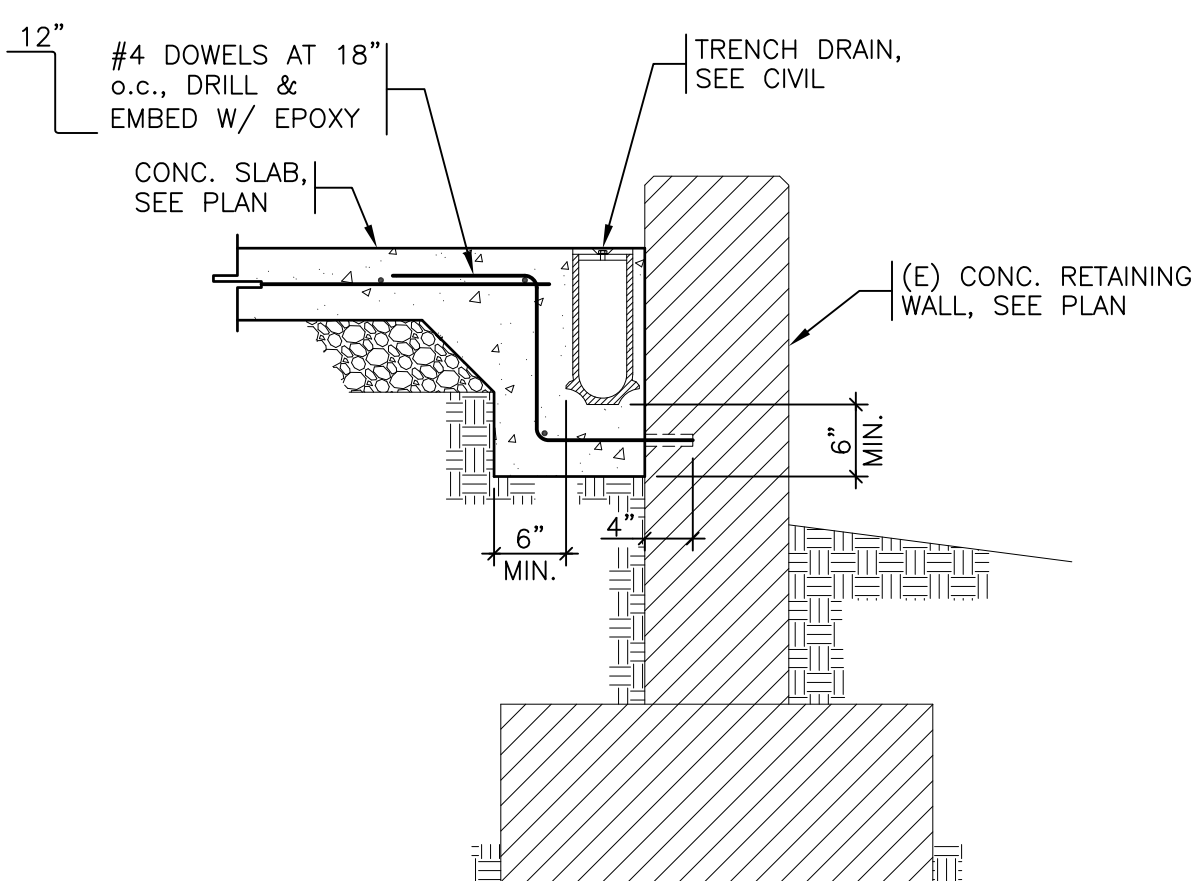
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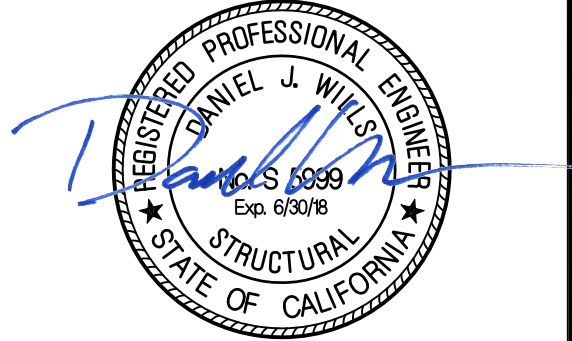
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REV	DATE	DESCRIPTION

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JUVENILE JUSTICE CENTER  
STAIRWAY RECONSTRUCTION  
STRUCTURAL DETAIL PLAN  
ALAMEDA COUNTY

SAN LEANDRO CALIFORNIA

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DRAWN BY: SC
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SCALE: AS SHOWN
PLOT DATE: 05/25/18
ISSUE: ISSUE FOR PERMIT

GENERAL NOTES, PLAN AND DETAILS

SHEET

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